

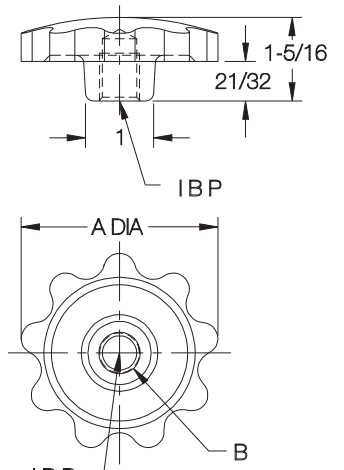
# PALM-GRIP HAND KNOBS

319 ALUMINUM ALLOY



1/2-13  
5/8-11  
M12  
M16

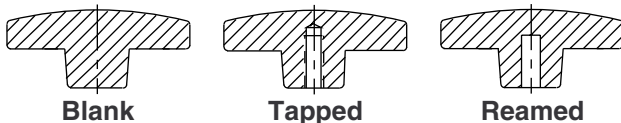
Polished full-grip hand knob. Choose from two knob sizes, each available blank, tapped or reamed. Note: catalog photos are actual size.



3/8-16  
1/2-13  
M10  
M12

### USA & METRIC

PART NO.	A DIA	HOLE TYPE	B
CL-11-PHK	2-3/4	BLANK	—
CL-13-PHK		TAPPED	3/8-16 X 3/4 DEEP
CL-14-PHK		TAPPED	1/2-13 X 3/4 DEEP
CLM-13-PHK		TAPPED	M10 X 3/4 DEEP
CLM-14-PHK		TAPPED	M12 X 3/4 DEEP
CL-12-PHK		REAMED	3/8 X 7/8 DEEP
CL-15-PHK		REAMED	1/2 X 7/8 DEEP
CLM-12-PHK		REAMED	10mm X 7/8 DEEP
CLM-15-PHK		REAMED	12mm X 7/8 DEEP
CL-21-PHK		3-1/8	BLANK
CL-23-PHK	TAPPED		1/2-13 X 3/4 DEEP
CL-24-PHK	TAPPED		5/8-11 X 3/4 DEEP
CLM-23-PHK	TAPPED		M12 X 3/4 DEEP
CLM-24-PHK	TAPPED		M16 X 3/4 DEEP
CL-22-PHK	REAMED		1/2 X 7/8 DEEP
CL-25-PHK	REAMED		5/8 X 1 DEEP
CLM-22-PHK	REAMED		12mm X 7/8 DEEP
CLM-25-PHK	REAMED		16mm X 1 DEEP



### MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# FLUTED KNOBS

BLACK PHENOLIC PLASTIC OR THERMOPLASTIC WITH BRASS INSERT

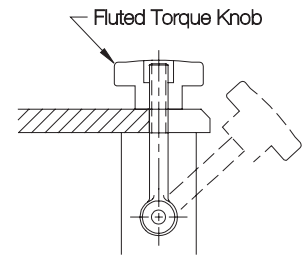
## Phenolic — Tapped



1/2-13 CL-88-PFK  
5/8-11 CL-810-PFK

Large easy-grip knob that is excellent for either fine-adjustment or high-torque applications. Molded-in brass insert provides superior thread strength. Choice of four knob sizes. Non-standard thread sizes, reamed holes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.

**NOW ALSO AVAILABLE IN METRIC!**



## Phenolic — Tapped Through Hole



3/8-16 CL-660-PFK

## Phenolic — Tapped Short Hub



3/8-16 CL-666-PFK



3/8-16 CL-66-PFK  
1/2-13 CL-68-PFK  
M12 CLM-612-PFK



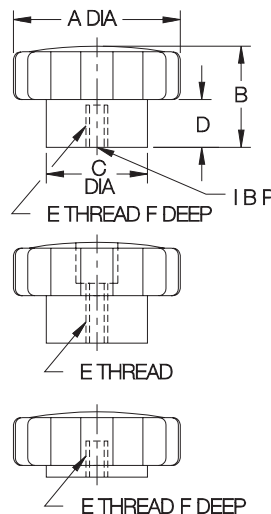
5/16-18 CL-450-PFK



1/4-20 CL-44-PFK  
5/16-18 CL-45-PFK  
3/8-16 CL-46-PFK  
M8 CLM-48-PFK  
M10 CLM-410-PFK



#10-32 CL-23-PFK  
1/4-20 CL-24-PFK  
5/16-18 CL-25-PFK  
M6 CLM-26-PFK



## PHENOLIC — TAPPED (USA & METRIC)

PART NO.	A DIA	B	C DIA	D	E	F
CL-23-PFK	1-3/8	27/32	27/32	25/64	#10-32	5/16
CL-24-PFK					1/4-20	
CL-25-PFK					5/16-18	
CLM-26-PFK	1-3/4	1-1/16	1-1/16	1/2	M6	7/16
CL-44-PFK					1/4-20	
CL-45-PFK					5/16-18	
CL-46-PFK	2-3/8	1-5/16	1-1/4	5/8	3/8-16	1/2
CLM-48-PFK					M8	
CLM-410-PFK					M10	
CL-66-PFK	3-1/4	1-25/32	2	7/8	3/8-16	1/2
CL-68-PFK					1/2-13	
CLM-612-PFK					M12	
CL-88-PFK	3-1/4	1-25/32	2	7/8	1/2-13	5/8
CL-810-PFK					5/8-11	

## PHENOLIC — TAPPED THROUGH HOLE (USA)

CL-450-PFK	1-3/4	61/64	1-1/16	1/2	5/16-18	5/8
CL-660-PFK	2-3/8	1-9/32	1-1/4	5/8	3/8-16	5/8

## PHENOLIC — TAPPED, SHORT HUB (USA)

CL-466-PFK	1-3/4	11/16	3/4	1/8	3/8-16	3/8
CL-666-PFK	2-3/8	13/16	3/4	1/8	3/8-16	1/2



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# FLUTED KNOBS

BLACK THERMOPLASTIC OR PHENOLIC PLASTIC WITH BRASS INSERT

## Thermoplastic — Tapped



5/16-18 CL-750-PFK  
3/8-16 CL-760-PFK



5/16-18 CL-550-PFK  
3/8-16 CL-560-PFK



1/4-20 CL-340-PFK  
5/16-18 CL-350-PFK

Thermoplastic version of the Fluted Knobs on page 62, with a textured non-slip, non-glare finish. Choice of three knob sizes. Molded-in brass insert provides superior thread strength. Non-standard thread sizes, reamed holes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.

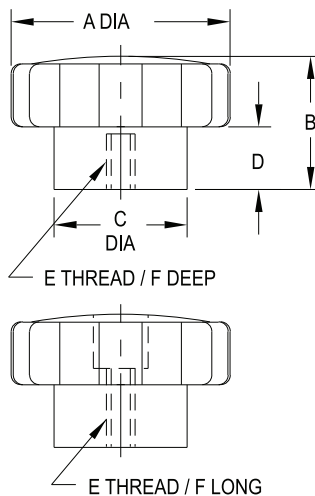
## Thermoplastic — Tapped Through Hole



5/16-18 CL-551-PFK  
3/8-16 CL-561-PFK



1/4-20 CL-341-PFK  
5/16-18 CL-351-PFK



### THERMOPLASTIC — TAPPED

PART NO.	A DIA	B	C DIA	D	E	F
CL-340-PFK	1-1/2	1	3/4	3/8	1/4-20	5/8
CL-350-PFK					5/16-18	
CL-550-PFK	2-5/32	1-1/8	3/4	3/8	5/16-18	3/4
CL-560-PFK					3/8-16	
CL-750-PFK	3-1/4	1-5/8	2	3/4	5/16-18	3/4
CL-760-PFK					3/8-16	

### THERMOPLASTIC — TAPPED THROUGH HOLE

CL-341-PFK	1-1/2	1	3/4	3/8	1/4-20	5/8
CL-351-PFK					5/16-18	
CL-551-PFK	2-5/32	1-1/8	3/4	3/8	5/16-18	7/8
CL-561-PFK					3/8-16	



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# STAR KNOBS

BLACK THERMOPLASTIC OR CUSHION-GRIP PLASTIC WITH BRASS INSERT

**Thermoplastic — Tapped**



- 1/4-20 CL-632-SK
- 5/16-18 CL-642-SK
- 3/8-16 CL-652-SK

**Thermoplastic — Tapped Through Hole**



- 1/4-20 CL-636-SK
- 5/16-18 CL-646-SK
- 3/8-16 CL-656-SK

**Cushion Grip — Tapped**



Star Knobs have five lobes to provide a firm, sure grip for applications requiring quick tightening and high torque. Smooth, rounded lobes prevent snagging. Thermoplastic version has a textured, non-slip, non-glare finish. Cushion-Grip version is made from a unique material that feels soft to the touch, comfortable yet rugged. Molded-in brass insert provides superior thread strength. Non-standard thread sizes, reamed holes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.

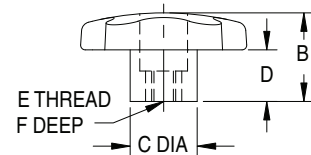
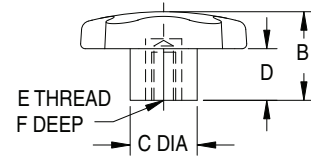
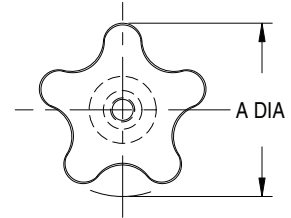
- 5/16-18 CL-755-SK
- 3/8-16 CL-765-SK



- 1/4-20 CL-545-SK
- 5/16-18 CL-555-SK
- 3/8-16 CL-565-SK



- 1/4-20 CL-345-SK
- 5/16-18 CL-355-SK



**THERMOPLASTIC — TAPPED**

PART NO.	A DIA	B	C DIA	D	E	F
CL-632-SK					1/4-20	1/2
CL-642-SK	2-1/4	1	7/8	1/2	5/16-18	5/8
CL-652-SK					3/8-16	1/2

**THERMOPLASTIC — TAPPED THROUGH HOLE**

PART NO.	A DIA	B	C DIA	D	E	F
CL-636-SK					1/4-20	
CL-646-SK	2-1/4	1	7/8	1/2	5/16-18	5/8
CL-656-SK					3/8-16	

**CUSHION GRIP — TAPPED**

PART NO.	A DIA	B	C DIA	D	E	F
CL-345-SK					1/4-20	
CL-355-SK	1-1/2	1-3/32	11/16	15/64	5/16-18	5/8
CL-545-SK					1/4-20	
CL-555-SK	2	1-3/8	3/4	33/64	5/16-18	5/8
CL-565-SK					3/8-16	
CL-755-SK	2-3/8	1-5/8	3/4	11/16	5/16-18	5/8
CL-765-SK					3/8-16	



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# HAND KNOBS

CAST IRON, ZINC PLATED CLEAR CHROMATE  
OR 319 ALUMINUM ALLOY

Classic easy-to-grip clamping knob, available in cast iron or aluminum. Choose from five knob sizes, each available blank, tapped, tapped through, or reamed. Note: catalog photos are actual size.



5/8-11  
3/4-10  
M16  
M20



1/2-13  
5/8-11  
M12  
M16



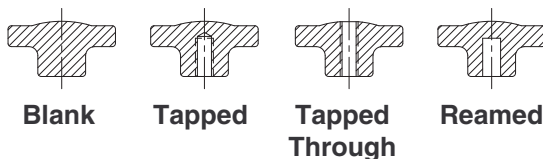
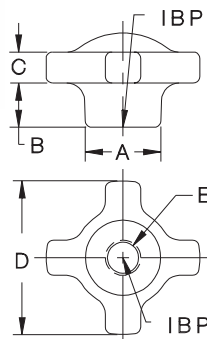
3/8-16  
1/2-13  
M10  
M12



1/4-20  
5/16-18  
M6  
M8



1/4-20  
M6



## USA & METRIC

PART NO. CAST IRON	PART NO. ALUMINUM	A DIA	B	C	D	HOLE TYPE	E
CL-85-HK-8	CL-85-HK-8A	9/16	5/16	5/16	1-1/8	BLANK	—
CL-80-HK-8	CL-80-HK-8A					TAPPED	1/4-20 x 1/2 DEEP
CLM-80-HK-8	CLM-80-HK-8A					THROUGH	M6 x 1/2 DEEP
CL-8-HK-8	CL-8-HK-8A					TAPPED	1/4-20
CLM-8-HK-8	CLM-8-HK-8A					THROUGH	M6
CL-28-HK-8	CL-28-HK-8A					REAMED	1/4 x 1/2 DEEP
CLM-28-HK-8	CLM-28-HK-8A		6mm x 1/2 DEEP				
CL-25-HK-2	CL-25-HK-2A	3/4	1/2	3/8	1-3/4	BLANK	—
CL-10-HK-2	CL-10-HK-2A					TAPPED	1/4-20 x 7/8 DEEP
CL-20-HK-2	CL-20-HK-2A					TAPPED	5/16-18 x 7/8 DEEP
CLM-10-HK-2	CLM-10-HK-2A					TAPPED	M6 x 7/8 DEEP
CLM-20-HK-2	CLM-20-HK-2A					TAPPED	M8 x 7/8 DEEP
CL-1-HK-2	CL-1-HK-2A					THROUGH	1/4-20
CL-2-HK-2	CL-2-HK-2A					THROUGH	5/16-18
CLM-1-HK-2	CLM-1-HK-2A					THROUGH	M6
CLM-2-HK-2	CLM-2-HK-2A					THROUGH	M8
CL-21-HK-2	CL-21-HK-2A					REAMED	1/4 x 7/8 DEEP
CL-22-HK-2	CL-22-HK-2A					REAMED	5/16 x 7/8 DEEP
CLM-21-HK-2	CLM-21-HK-2A					REAMED	6mm x 7/8 DEEP
CLM-22-HK-2	CLM-22-HK-2A	REAMED	8mm x 7/8 DEEP				
CL-45-HK-4	CL-45-HK-4A	1	5/8	7/16	2-1/8	BLANK	—
CL-30-HK-4	CL-30-HK-4A					TAPPED	3/8-16 x 1 DEEP
CL-40-HK-4	CL-40-HK-4A					TAPPED	1/2-13 x 1 DEEP
CLM-30-HK-4	CLM-30-HK-4A					TAPPED	M10 x 1 DEEP
CLM-40-HK-4	CLM-40-HK-4A					TAPPED	M12 x 1 DEEP
CL-3-HK-4	CL-3-HK-4A					THROUGH	3/8-16
CL-4-HK-4	CL-4-HK-4A					THROUGH	1/2-13
CLM-3-HK-4	CLM-3-HK-4A					THROUGH	M10
CLM-4-HK-4	CLM-4-HK-4A					THROUGH	M12
CL-23-HK-4	CL-23-HK-4A					REAMED	3/8 x 1 DEEP
CL-24-HK-4	CL-24-HK-4A					REAMED	1/2 x 1 DEEP
CLM-23-HK-4	CLM-23-HK-4A					REAMED	10mm x 1 DEEP
CLM-24-HK-4	CLM-24-HK-4A	REAMED	12mm x 1 DEEP				
CL-105-HK-10	CL-105-HK-10A	1-1/8	1	1/2	2-1/2	BLANK	—
CL-90-HK-9	CL-90-HK-9A					TAPPED	1/2-13 x 1-1/4 DEEP
CL-100-HK-10	CL-100-HK-10A					TAPPED	5/8-11 x 1-1/4 DEEP
CLM-90-HK-9	CLM-90-HK-9A					TAPPED	M12 x 1-1/4 DEEP
CLM-100-HK-10	CLM-100-HK-10A					TAPPED	M16 x 1-1/4 DEEP
CL-9-HK-9	CL-9-HK-9A					THROUGH	1/2-13
CL-10-HK-10	CL-10-HK-10A					THROUGH	5/8-11
CLM-9-HK-9	CLM-9-HK-9A					THROUGH	M12
CLM-10-HK-10	CLM-10-HK-10A					THROUGH	M16
CL-29-HK-9	CL-29-HK-9A					REAMED	1/2 x 1-1/4 DEEP
CL-31-HK-10	CL-31-HK-10A					REAMED	5/8 x 1-1/4 DEEP
CLM-29-HK-9	CLM-29-HK-9A					REAMED	12mm x 1-1/4 DEEP
CLM-31-HK-10	CLM-31-HK-10A	REAMED	16mm x 1-1/4 DEEP				
CL-65-HK-6	CL-65-HK-6A	1-3/8	3/4	1/2	2-3/4	BLANK	—
CL-50-HK-6	CL-50-HK-6A					TAPPED	5/8-11 x 1-1/8 DEEP
CL-60-HK-6	CL-60-HK-6A					TAPPED	3/4-10 x 1-1/8 DEEP
CLM-50-HK-6	CLM-50-HK-6A					TAPPED	M16 x 1-1/8 DEEP
CLM-60-HK-6	CLM-60-HK-6A					TAPPED	M20 x 1-1/8 DEEP
CL-5-HK-6	CL-5-HK-6A					THROUGH	5/8-11
CL-6-HK-6	CL-6-HK-6A					THROUGH	3/4-10
CLM-5-HK-6	CLM-5-HK-6A					THROUGH	M16
CLM-6-HK-6	CLM-6-HK-6A					THROUGH	M20
CL-25-HK-6	CL-25-HK-6A					REAMED	5/8 x 1-1/8 DEEP
CL-26-HK-6	CL-26-HK-6A					REAMED	3/4 x 1-1/8 DEEP
CLM-25-HK-6	CLM-25-HK-6A					REAMED	16mm x 1-1/8 DEEP
CLM-26-HK-6	CLM-26-HK-6A	REAMED	20mm x 1-1/8 DEEP				



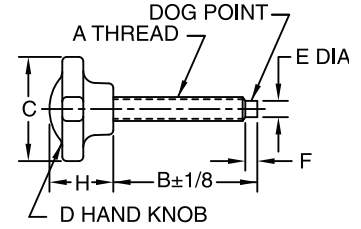
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# HAND KNOB ASSEMBLIES

KNOB: 319 ALUMINUM ALLOY  
SCREW: 12L14 STEEL, BLACK OXIDE FINISH



Hand knob with a clamping screw cast securely in place. Four-prong design provides a firm grip for applications requiring quick tightening and high torque. Choice of three knob sizes. Available in thread sizes from 1/4-20 to 3/4-10 (M6 to M20 in metric), most in a choice of several thread lengths. See page 59 for additional hand-knob dimensions.



## USA

PART NO.	A	B	C	D	E DIA	F	H
CL-1-HK2T	1/4-20	1	1-3/4	CL-25-HK-2A	.15	.12	1-1/8
CL-2-HK2T		1-1/2					
CL-2A-HK2T		2					
CL-2B-HK2T	5/16-18	3	1-3/4	CL-25-HK-2A	.20	.16	1-1/8
CL-3-HK2T		1-3/4					
CL-4-HK2T		2-1/2					
CL-4A-HK2T	3/8-16	3	2-1/8	CL-45-HK-4A	.25	.19	1-3/8
CL-5A-HK4T		1					
CL-5B-HK4T		1-1/2					
CL-5-HK4T	1/2-13	2	2-1/8	CL-45-HK-4A	.34	.25	1-3/8
CL-6A-HK4T		2-1/2					
CL-6-HK4T		3					
CL-7A-HK4T	5/8-11	1	2-3/4	CL-65-HK-6A	.46	.31	1-1/2
CL-7B-HK4T		1-1/2					
CL-7C-HK4T		2					
CL-7-HK4T	3/4-10	2-1/2	2-3/4	CL-65-HK-6A	.56	.38	1-1/2
CL-8-HK4T		3					
CL-9-HK6T		1-3/4					
CL-10-HK6T	3/4-10	3	2-3/4	CL-65-HK-6A	.56	.38	1-1/2
CL-12-HK6T		3					

## METRIC

PART NO.	A	B	C	D	E DIA	F	H
CLM-1-HK2T	M6	.98	1-3/4	CL-25-HK-2A	.17	.13	1-1/8
CLM-2-HK2T		1.57					
CLM-3A-HK2T		.98					
CLM-3-HK2T	M8	1.77	1-3/4	CL-25-HK-2A	.23	.18	1-1/8
CLM-4-HK2T		2.56					
CLM-5A-HK4T		.98					
CLM-5B-HK4T	M10	1.57	2-1/8	CL-45-HK-4A	.27	.19	1-3/8
CLM-5-HK4T		1.97					
CLM-6-HK4T		2.56					
CLM-7A-HK4T	M12	.98	2-1/8	CL-45-HK-4A	.35	.25	1-3/8
CLM-7B-HK4T		1.57					
CLM-7C-HK4T		1.97					
CLM-7-HK4T	M16	2.56	2-3/4	CL-65-HK-6A	.47	.32	1-1/2
CLM-8-HK4T		2.95					
CLM-9-HK6T		1.77					
CLM-10-HK6T	M20	2.95	2-3/4	CL-65-HK-6A	.59	.31	1-1/2
CLM-12-HK6T		2.95					

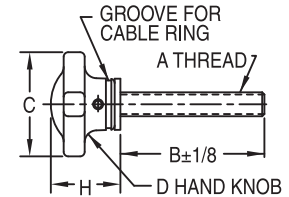
# SWIVEL HAND KNOB ASSEMBLIES

KNOB: 319 ALUMINUM ALLOY  
SCREW: 12L14 STEEL, BLACK OXIDE FINISH.  
WASHER: MILD STEEL

**NEW!**



Hand-knob assembly with a captive, freely rotating washer to prevent marring in clamping applications. Four-prong design provides a firm grip for applications requiring quick tightening and high torque. Plain-end screw with no dogpoint. Choice of three knob sizes. Available in thread sizes from 1/4-20 to 3/4-10 (M6 to M20 in metric), most in a choice of several thread lengths. See page 59 for additional hand-knob dimensions.



## USA

PART NO.	A	B	C	D	H
CL-1-SHK2T	1/4-20	1	1-3/4	CL-25-HK-2A	1.33
CL-2-SHK2T		1-1/2			
CL-2A-SHK2T		2			
CL-2B-SHK2T	5/16-18	3	1-3/4	CL-25-HK-2A	1.34
CL-3-SHK2T		1-3/4			
CL-4-SHK2T		2-1/2			
CL-4A-SHK2T	3/8-16	3	2-1/8	CL-45-HK-4A	1.47
CL-5A-SHK4T		1			
CL-5B-SHK4T		1-1/2			
CL-5-SHK4T	1/2-13	2	2-1/8	CL-45-HK-4A	1.53
CL-6A-SHK4T		2-1/2			
CL-6-SHK4T		3			
CL-7A-SHK4T	5/8-11	1	2-3/4	CL-65-HK-6A	1.66
CL-7B-SHK4T		1-1/2			
CL-7C-SHK4T		2			
CL-7-SHK4T	3/4-10	2-1/2	2-3/4	CL-65-HK-6A	1.77
CL-8-SHK4T		3			
CL-9-SHK6T		1-3/4			
CL-10-SHK6T	3/4-10	3	2-3/4	CL-65-HK-6A	1.66
CL-12-SHK6T		3			

## METRIC

PART NO.	A	B	C	D	H
CLM-1-SHK2T	M6	.98	1-3/4	CL-25-HK-2A	1.33
CLM-2-SHK2T		1.57			
CLM-3A-SHK2T		.98			
CLM-3-SHK2T	M8	1.77	1-3/4	CL-25-HK-2A	1.34
CLM-4-SHK2T		2.56			
CLM-5A-SHK4T		.98			
CLM-5B-SHK4T	M10	1.57	2-1/8	CL-45-HK-4A	1.47
CLM-5-SHK4T		1.97			
CLM-6-SHK4T		2.56			
CLM-7A-SHK4T	M12	.98	2-1/8	CL-45-HK-4A	1.53
CLM-7B-SHK4T		1.57			
CLM-7C-SHK4T		1.97			
CLM-7-SHK4T	M16	2.56	2-3/4	CL-65-HK-6A	1.66
CLM-8-SHK4T		2.95			
CLM-9-SHK6T		1.77			
CLM-10-SHK6T	M20	2.95	2-3/4	CL-65-HK-6A	1.66
CLM-12-SHK6T		2.95			



## MANUFACTURING CO.

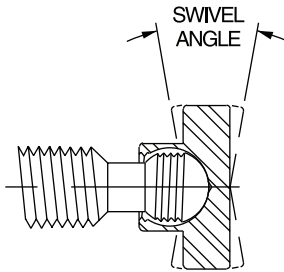
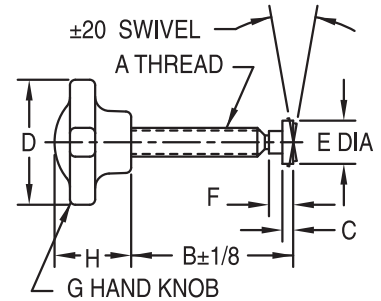
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# KNOB SHOE ASSEMBLIES

KNOB: 319 ALUMINUM ALLOY  
 SCREW: 12L14 STEEL, BLACK OXIDE FINISH  
 FOOT: 12L14 STEEL, BLACK OXIDE FINISH (OR DELRIN®)



Hand knob assembly with a removable swivel foot. Clamping screw is cast securely in the knob. Four-prong design provides a firm grip for applications requiring quick tightening and high torque. Choice of four knob sizes. Available in thread sizes from 1/4-20 to 3/4-10 (M6 to M20 in metric), most in a choice of several thread lengths. See page 59 for additional hand-knob dimensions.



Knob Shoe Assemblies use our patented left-hand-thread swivel-foot system. The ball end of the body screws into the foot for easy installation and removal. Once the ball threads pass beyond the foot threads, the foot can rotate and pivot freely (20° total angle). Foot threads are left-hand to positively prevent accidental backout during use. Delrin® feet are optional. To order with a Delrin® foot, add "N" to the part number, e.g. CL-1-KSAN. Note: Delrin® feet are not threaded – they snap on and off. For other foot types, see Feet for Swivel Screws on page 77 (order separately).

## USA

PART NO.	A	B	C	D	E DIA	F	G	H
CL-1-KSA	1/4-20	1-1/4	1/8	1-1/8	3/8	5/16	CL-85-HK-8A	7/8
CL-2-KSA		2						
CL-2A-KSA	1/4-20	2	1/8	1-3/4	3/8	5/16	CL-25-HK-2A	1-1/8
CL-3-KSA	5/16-18	1-1/2	5/32	1-3/4	1/2	11/32	CL-25-HK-2A	1-1/8
CL-4-KSA		2-1/4						
CL-4A-KSA		2-3/4						
CL-5-KSA		2-1/16						
CL-6-KSA	3/8-16	2-13/16	3/16	2-1/8	9/16	7/16	CL-45-HK-4A	1-3/8
CL-7-KSA		3-9/16						
CL-8-KSA	1/2-13	2-13/16	7/32	2-3/4	3/4	27/64	CL-65-HK-6A	1-1/2
CL-9-KSA		3-9/16						
CL-10-KSA		4-5/16						
CL-11-KSA	5/8-11	3-5/16	7/32	2-3/4	15/16	33/64	CL-65-HK-6A	1-1/2
CL-13-KSA		4-13/16						
CL-14-KSA	3/4-10	3-5/16	7/32	2-3/4	15/16	33/64	CL-65-HK-6A	1-1/2
CL-16-KSA		4-13/16						

## METRIC

PART NO.	A	B	C	D	E DIA	F	G	H
CLM-1-KSA	M6	.98	1/8	1-1/8	3/8	5/16	CL-85-HK-8A	7/8
CLM-2-KSA		1.97						
CLM-3-KSA	M8	1.57	5/32	1-3/4	1/2	11/32	CL-25-HK-2A	1-1/8
CLM-4-KSA		2.36						
CLM-5-KSA	M10	1.97	3/16	2-1/8	9/16	7/16	CL-45-HK-4A	1-3/8
CLM-6-KSA		3.54						
CLM-7-KSA	M12	2.76	7/32	2-3/4	3/4	27/64	CL-65-HK-6A	1-1/2
CLM-8-KSA		4.33						
CLM-9-KSA	M16	3.15	7/32	2-3/4	15/16	33/64	CL-65-HK-6A	1-1/2
CLM-10-KSA		4.72						



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 Web Site: [www.carrlane.com](http://www.carrlane.com)

# FOUR-PRONG KNOBS

KNOB: BLACK PHENOLIC PLASTIC WITH BRASS INSERT  
 STUD: MILD STEEL, ZINC PLATED CLEAR CHROMATE

## Phenolic — Tapped



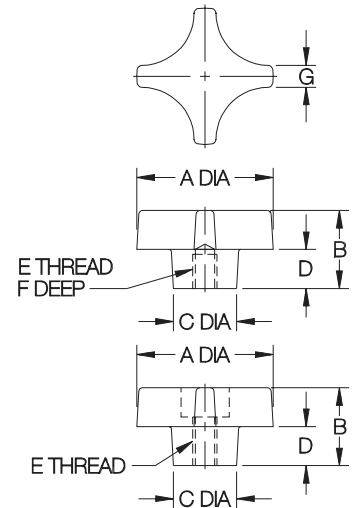
5/16-18 CL-20-PPK-4  
 3/8-16 CL-30-PPK-4  
 1/2-13 CL-40-PPK-4  
 M10 CLM-10-PPK-4



1/4-20 CL-10-PPK-2  
 5/16-18 CL-20-PPK-2  
 3/8-16 CL-30-PPK-2  
 M8 CLM-8-PPK-2



#10-24 CL-10B-PPK-1  
 #10-32 CL-10A-PPK-1  
 1/4-20 CL-10-PPK-1  
 5/16-18 CL-20-PPK-1  
 M6 CLM-6-PPK-1



## Phenolic — Tapped Through Hole



5/16-18 CL-2-PPK-4  
 3/8-16 CL-3-PPK-4  
 1/2-13 CL-4-PPK-4



1/4-20 CL-1-PPK-2  
 5/16-18 CL-2-PPK-2  
 3/8-16 CL-3-PPK-2



#10-24 CL-1B-PPK-1  
 #10-32 CL-1A-PPK-1  
 1/4-20 CL-1-PPK-1

**NOW ALSO  
 AVAILABLE  
 IN METRIC!**

Four-prong design provides a strong grip for clamping and other applications requiring quick tightening and high torque. Choice of three knob sizes. Molded-in brass insert provides superior thread strength. Also available with a molded-in clamping stud (page 63). Note: Catalog photos are actual size.

### PHENOLIC — TAPPED (USA & METRIC)

PART NO.	A	B	C DIA	D	E	F	G
CL-10B-PPK-1	1-1/4	7/8	5/8	3/8	#10-24	5/16	1/4
CL-10A-PPK-1					#10-32		
CL-10-PPK-1					1/4-20		
CL-20-PPK-1					5/16-18		
CLM-6-PPK-1					M6		
CL-10-PPK-2	1-3/4	1	13/16	1/2	1/4-20	1/2	9/32
CL-20-PPK-2					5/16-18		
CL-30-PPK-2					3/8-16		
CLM-8-PPK-2					M8		
CL-20-PPK-4	2-1/4	1-1/8	1	9/16	5/16-18	7/16	5/16
CL-30-PPK-4					3/8-16	1/2	
CL-40-PPK-4					1/2-13	5/8	
CLM-10-PPK-4					M10		

### PHENOLIC — TAPPED THROUGH HOLE (USA)

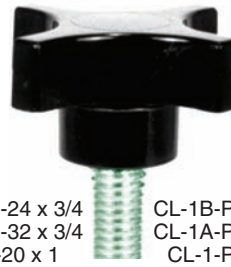
CL-1B-PPK-1	1-1/4	7/8	5/8	3/8	#10-24	5/16	1/4
CL-1A-PPK-1					#10-32		
CL-1-PPK-1					1/4-20		
CL-1-PPK-2	1-3/4	1	13/16	1/2	1/4-20	5/8	9/32
CL-2-PPK-2					5/16-18		
CL-3-PPK-2					3/8-16		
CL-2-PPK-4	2-1/4	1-1/8	1	9/16	5/16-18	5/8	5/16
CL-3-PPK-4					3/8-16		
CL-4-PPK-4					1/2-13		



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# FOUR-PRONG KNOBS



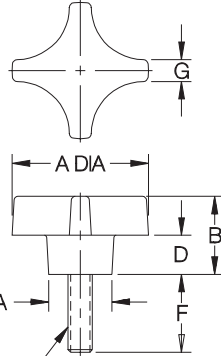
**NOW ALSO AVAILABLE IN METRIC!**

#10-24 x 3/4 CL-1B-PPK1T  
 #10-32 x 3/4 CL-1A-PPK1T  
 1/4-20 x 1 CL-1-PPK1T  
 M6 x 20mm CLM-620-PPK1T

3/8-16 x 1  
 3/8-16 x 1-1/2  
 3/8-16 x 2  
 3/8-16 x 2-1/2  
 1/2-13 x 1-1/2  
 1/2-13 x 2  
 1/2-13 x 2-1/2  
 M10 x 40mm

CL-5A-PPK4T  
 CL-5B-PPK4T  
 CL-5-PPK4T  
 CL-6-PPK4T  
 CL-7B-PPK4T  
 CL-7C-PPK4T  
 CL-7-PPK4T  
 CLM-1040-PPK4T

1/4-20 x 1 CL-1-PPK2T  
 5/16-18 x 1 CL-3A-PPK2T  
 5/16-18 x 1-1/2 CL-4A-PPK2T  
 5/16-18 x 2 CL-4B-PPK2T  
 M8 x 30mm CLM-830-PPK-2T

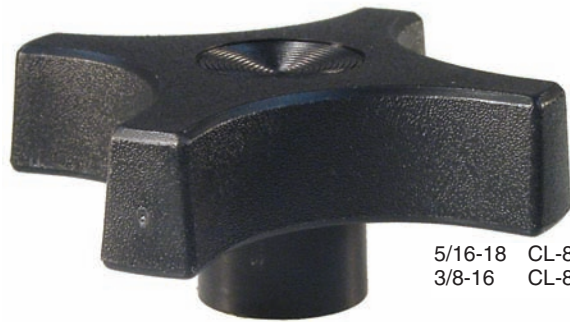


## PHENOLIC — STUD TYPE (USA & METRIC)

PART NO.	A	B	C DIA	D	E	F	G
CL-1B-PPK1T	1-1/4	7/8	5/8	3/8	#10-24	3/4	1/4
CL-1A-PPK1T					#10-32	3/4	
CL-1-PPK1T					1/4-20	1	
CLM-620-PPK1T					M6	.79	
CL-1-PPK2T	1-3/4	1	13/16	1/2	1/4-20	1	9/32
CL-3A-PPK2T					5/16-18	1-1/2	
CL-4A-PPK2T					1-1/2	2	
CL-4B-PPK2T					M8	1.18	
CLM-830-PPK2T					1	1	
CL-5A-PPK4T					3/8-16	1-1/2	
CL-5B-PPK4T	2	2					
CL-5-PPK4T	2-1/2	1-1/2					
CL-6-PPK4T	1-1/2	2					
CL-7B-PPK4T	2-1/2	2					
CL-7C-PPK4T	M10	1.57					

# FOUR-PRONG KNOBS

BLACK THERMOPLASTIC WITH BRASS INSERT



5/16-18 CL-850-PPK  
 3/8-16 CL-860-PPK

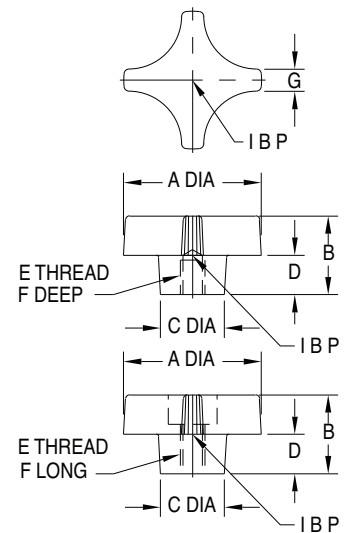
## Thermoplastic — Tapped

Four-prong design in thermoplastic, with a textured non-slip, non-glare finish. Molded-in brass insert provides superior thread strength. Non-standard thread sizes, reamed holes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.



5/16-18 CL-851-PPK  
 3/8-16 CL-861-PPK

## Thermoplastic — Tapped Through Hole



## THERMOPLASTIC — TAPPED (USA)

PART NO.	A	B	C DIA	D	E	F	G
CL-850-PPK	3	1-1/4	7/8	9/16	5/16-18	5/8	1/2
CL-860-PPK					3/8-16		

## THERMOPLASTIC — TAPPED THROUGH HOLE (USA)

PART NO.	A	B	C DIA	D	E	F	G
CL-851-PPK	3	1-1/4	7/8	9/16	5/16-18	5/8	1/2
CL-861-PPK					3/8-16		



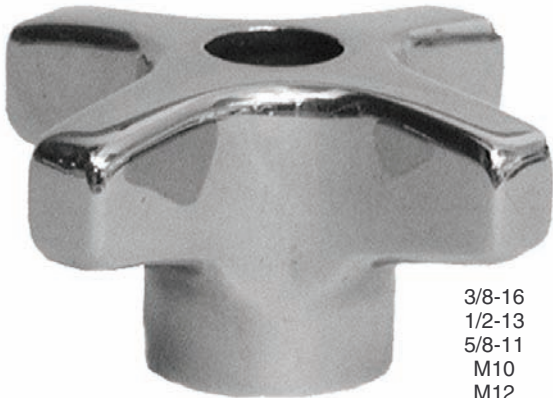
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 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# HAND KNOBS STAINLESS STEEL

300-SERIES STAINLESS STEEL

**NOW ALSO  
AVAILABLE  
IN METRIC!**

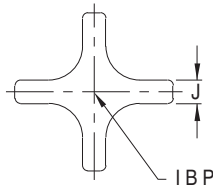


3/8-16  
1/2-13  
5/8-11  
M10  
M12  
M16

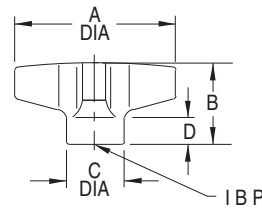


1/4-20  
5/16-18  
3/8-16  
M6  
M8  
M10

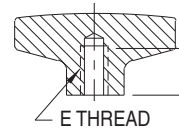
High-quality, stainless steel knob with a beautiful polished finish. Four-prong design provides a firm grip for applications requiring quick tightening and high torque. Choose from two knob sizes, each available blank, tapped, tapped through, or reamed. Note: Catalog photos are actual size.



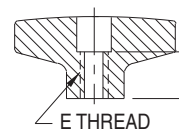
Blank



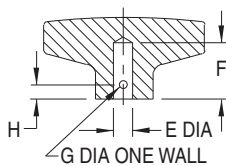
Tapped



Tapped Through Hole



Reamed



## USA & METRIC

PART NO.	A DIA	B	C DIA	D	HOLE TYPE	E	F	G	H	J	
CL-200-HK-S	2	1.02	.78	.34	BLANK	—	—	—	—	.33	
CL-240-HK-S					TAPPED	1/4-20	11/16	—	—		
CL-250-HK-S						5/16-18					
CL-260-HK-S						3/8-16					
CLM-260-HK-S						M6					
CLM-280-HK-S					M8	1/2	5/8	—	—		
CLM-2100-HK-S					M10						
CL-241-HK-S					1/4-20						
CL-251-HK-S					5/16-18	3/4	—	—	—		
CL-261-HK-S					3/8-16						
CLM-261-HK-S	M6										
CLM-281-HK-S	M8	5/8	—	—	—						
CLM-2101-HK-S	M10										
CL-255-HK-S	3	1.50	1.14	.50	REAMED	5/16	11/16	1/8	3/16	.47	
CL-265-HK-S					3/8						
CL-600-HK-S					BLANK	—	—	—	1		
CL-660-HK-S					TAPPED	3/8-16	3/4	—			—
CL-680-HK-S						1/2-13					
CL-6100-HK-S						5/8-11					
CLM-6100-HK-S						M10					
CLM-6120-HK-S						M12					
CLM-6160-HK-S					M16	1-1/4	—	—	—		
CL-661-HK-S					3/8-16						
CL-681-HK-S	1/2-13										
CL-6101-HK-S	5/8-11										
CLM-6101-HK-S	M10										
CLM-6121-HK-S	M12	1	—	—	—						
CLM-6161-HK-S	M16										
CL-665-HK-S	REAMED	3/8	1	5/32	3/16	1/4					
CL-685-HK-S		1/2									



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# THREE-PRONG KNOBS

BLACK THERMOPLASTIC WITH BRASS INSERT



5/16-18 CL-850-TPK  
3/8-16 CL-860-TPK



1/4-20 CL-640-TPK  
5/16-18 CL-650-TPK  
3/8-16 CL-660-TPK



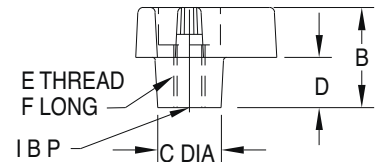
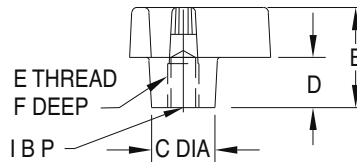
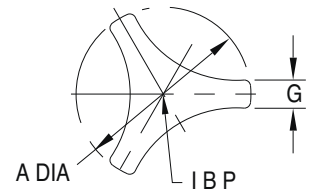
1/4-20 CL-440-TPK  
5/16-18 CL-450-TPK

Thermoplastic — Tapped



5/16-18 CL-851-TPK  
3/8-16 CL-861-TPK

Thermoplastic — Tapped Through Hole



Modern three-prong design provides quick tightening and high torque. Textured non-slip, non-glare finish. Choice of three knob sizes. Molded-in brass insert provides superior thread strength. Non-standard thread sizes, reamed holes, molded-in studs, or special colors are available in quantities of 250 and above.

## THERMOPLASTIC — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D	E	F	G
CL-440-TPK	1-1/2	7/8	1/2	3/8	1/4-20	7/16	9/32
CL-450-TPK					5/16-18		
CL-640-TPK	2	1-1/16	5/8	1/2	1/4-20	7/16	3/8
CL-650-TPK					5/16-18		
CL-660-TPK					3/8-16		
CL-850-TPK	2-1/2	1-1/8	3/4	1/2	5/16-18	7/16	1/2
CL-860-TPK					3/8-16	1/2	

## THERMOPLASTIC — TAPPED THROUGH HOLE (USA)

PART NO.	A DIA	B	C DIA	D	E	F	G
CL-851-TPK	2-1/2	1-1/8	3/4	1/2	5/16-18	5/8	1/2
CL-861-TPK					3/8-16		



## MANUFACTURING CO.

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Web Site: www.carrlane.com

# T-HANDLE KNOBS

BLACK PHENOLIC PLASTIC OR THERMOPLASTIC WITH BRASS INSERT

## Phenolic — Tapped



- 1/4-20 CL-632-TK
- 5/16-18 CL-642-TK
- 3/8-16 CL-652-TK
- 3/8-24 CL-654-TK
- M8 CLM-642-TK
- M10 CLM-652-TK

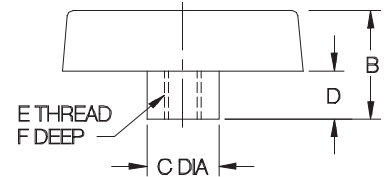
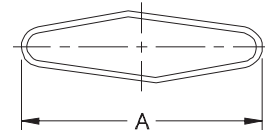
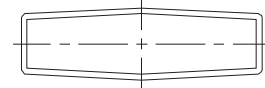
## Thermoplastic — Tapped



- 1/4-20 CL-6320-TK
- 5/16-18 CL-6420-TK
- 3/8-16 CL-6520-TK
- M8 CLM-6420-TK
- M10 CLM-6520-TK

**NOW ALSO  
AVAILABLE  
IN METRIC!**

T-Handle Knobs provide maximum leverage for heavy-duty clamping. Ideal for fastening fold-down handles and stands. Available in phenolic plastic (one knob size) for a shiny polished finish, or in thermoplastic (three knob sizes) for a textured non-slip, non-glare finish. Molded-in brass insert provides superior thread strength. Non-standard thread sizes, reamed holes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.



- 1/4-20 CL-432-TK
- 5/16-18 CL-442-TK
- 3/8-16 CL-452-TK
- M6 CLM-432-TK
- M8 CLM-442-TK



- 1/4-20 CL-232-TK
- M6 CLM-232-TK

### PHENOLIC — TAPPED (USA & METRIC)

PART NO.	A	B	C DIA	D	E	F
CL-632-TK	2-1/2	2-1/2	2-1/2	2-1/2	1/4-20	5/8
CL-642-TK					5/16-18	
CL-652-TK					3/8-16	1/2
CL-654-TK					3/8-24	
CLM-642-TK					M8	
CLM-652-TK					M10	1/2

### THERMOPLASTIC — TAPPED (USA & METRIC)

PART NO.	A	B	C DIA	D	E	F	
CL-232-TK	1	7/8	1/2	3/8	1/4-20	7/16	
CLM-232-TK					M6		
CL-432-TK	2	1-1/8	3/4	1/2	1/4-20	5/8	
CL-442-TK					5/16-18		
CL-452-TK					3/8-16	1/2	
CLM-432-TK					M6		
CLM-442-TK					M8		5/8
CL-6320-TK					2-1/2	1-1/4	3/4
CL-6420-TK	5/16-18						
CL-6520-TK	3/8-16	1/2					
CLM-6420-TK	M8		5/8				
CLM-6520-TK	M10		1/2				

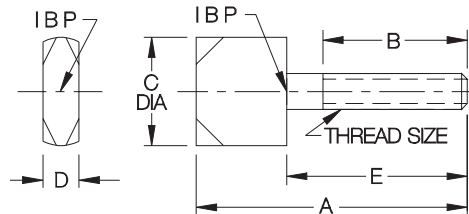
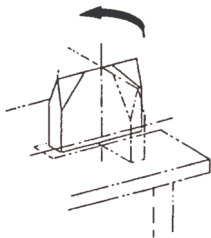


## MANUFACTURING CO.

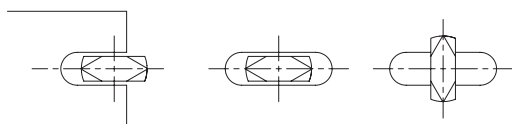
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# QUARTER-TURN SCREWS

12L14 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



Rotate screw 90 degrees (1/4 turn) to latch. Ideal for swing-away lids and jig plates. Beveled edges allow easy insertion into a slot. Also available soft (not carburized-hardened) for customizing as desired.



Use quarter-turn screws in either open or closed slots.

## USA

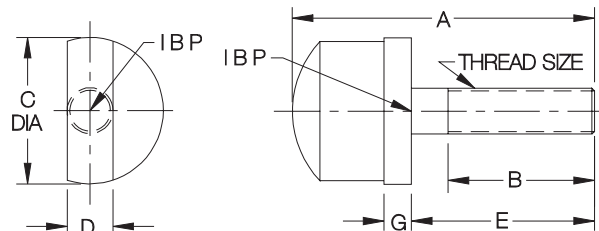
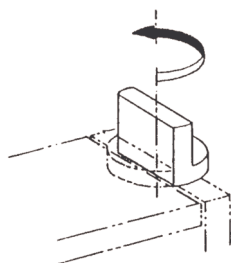
PART NO. HARDENED	PART NO. SOFT	THREAD SIZE	A	B	C DIA	D	E
CL-1-QTS	CL-10-QTS	#10-24	1-1/2	7/8	5/8	3/16	1
CL-2-QTS	CL-20-QTS	#10-32			1/2		
CL-3-QTS	CL-30-QTS	1/4-20	1-7/8	1	3/4	1/4	1-1/4
CL-4-QTS	CL-40-QTS	5/16-18	2-1/4			5/16	
CL-5-QTS	CL-50-QTS	3/8-16	2-1/2	1-1/4	1	3/8	1-1/2
CL-6-QTS	CL-60-QTS	1/2-13	2-3/4	1-1/2	1-1/4	1/2	1-3/4

## METRIC

CLM-5-QTS	—	M5	1.57	.79	.63	.20	.98
CLM-6-QTS	—	M6	1.97	.98	.75	.24	1.18
CLM-8-QTS	—	M8	2.36	1.38	1.00	.31	1.57
CLM-10-QTS	—	M10	2.56		1.00	.39	
CLM-12-QTS	—	M12	2.76	1.57	1.26	.47	1.77

# HALF-TURN SCREWS

12L14 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH



## USA

PART NO. HARDENED	THREAD SIZE	A	B	C DIA	D	E	G
CL-1-HTS	#10-32	1-11/16	7/8	3/4	3/16	1	3/16
CL-2-HTS	1/4-20	2	1	3/4	1/4	1-1/4	
CL-3-HTS	5/16-18	2-1/16		1	5/16		
CL-4-HTS	3/8-16	2-11/16	1-1/2	1-1/16	3/8	1-3/4	1/4
CL-5-HTS	1/2-13	2-3/4		1-1/4	1/2		

## METRIC

CLM-5-HTS	M5	1.69	.87	.75	.20	.98	
CLM-6-HTS	M6	1.93		.75	.24	1.18	.20
CLM-8-HTS	M8	1.97	.94	1.00	.31		
CLM-10-HTS	M10	2.72	1.54	1.06	.39	1.77	.24

Rotate screw 180 degrees (1/2 turn) to latch. Allows latching swing-away lids and jig plates without machining a slot.



## MANUFACTURING CO.

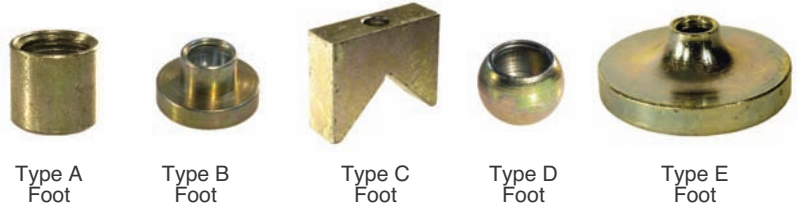
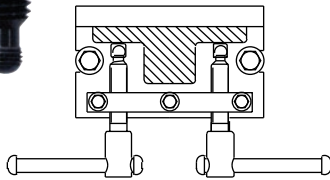
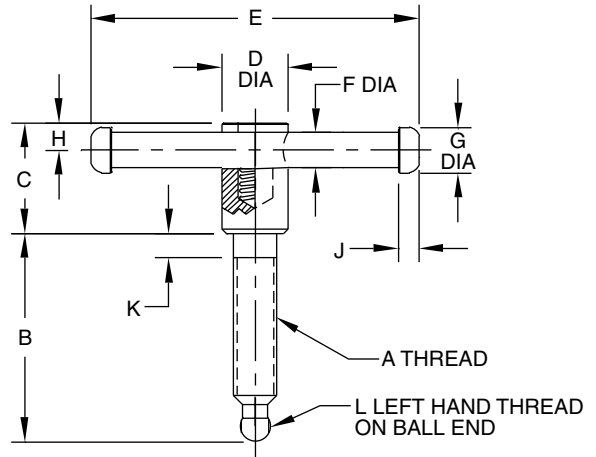
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 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# BAR-HANDLE SCREW CLAMPS

STEEL: 12L14 STEEL BODY, CARBURIZED HARDENED, BLACK OXIDE FINISH. 12L14 STEEL HANDLE, BLACK OXIDE FINISH.  
300-SERIES STAINLESS STEEL SPRING. STAINLESS: 300-SERIES STAINLESS STEEL.



Screw clamp with a sliding bar handle for excellent leverage. The bar can be moved to any position, for convenient tightening, and is held in place by light spring force. These screw clamps accept all standard feet for swivel screws (see page 75 for foot dimensions and specifications). Type A and B feet are also available in Delrin, by adding "N" to the part number (examples: CL-620-BHSAN, CL-620-BHSA-SN). Available in screw sizes from 3/8-16 to 5/8-11 (M10 to M16 in metric), each in several lengths.



## GENERAL DIMENSIONS

SIZE	C	D DIA	E	F DIA	G DIA	H	J	K	L
3/8-16 or M10	1-1/4	3/4	3-1/8	5/16	3/8	9/32	9/32	3/8	1/4-28 LH
1/2-13 or M12	1-3/8	13/16	3-15/16	3/8	1/2	11/32	11/32	3/8	5/16-24 LH
5/8-11 or M16	1-5/8	1	4-3/4	1/2	5/8	13/32	13/32	3/8	7/16-20 LH

## STEEL (USA)

PART NO. WITHOUT FOOT	PART NO. WITH TYPE A SMALL FOOT	PART NO. WITH TYPE B LARGE FOOT	PART NO. WITH TYPE C VEE FOOT	PART NO. WITH TYPE D BALL FOOT	PART NO. WITH TYPE E EXTRA-LARGE FOOT	A	B
CL-620-BHS	CL-620-BHSA	CL-620-BHSB	CL-620-BHSC	CL-620-BHSD	—	3/8-16	2
CL-630-BHS	CL-630-BHSA	CL-630-BHSB	CL-630-BHSC	CL-630-BHSD	—		3
CL-640-BHS	CL-640-BHSA	CL-640-BHSB	CL-640-BHSC	CL-640-BHSD	—		4
CL-820-BHS	CL-820-BHSA	CL-820-BHSB	CL-820-BHSC	CL-820-BHSD	CL-820-BHSE	1/2-13	2
CL-830-BHS	CL-830-BHSA	CL-830-BHSB	CL-830-BHSC	CL-830-BHSD	CL-830-BHSE		3
CL-840-BHS	CL-840-BHSA	CL-840-BHSB	CL-840-BHSC	CL-840-BHSD	CL-840-BHSE		4
CL-1030-BHS	CL-1030-BHSA	CL-1030-BHSB	CL-1030-BHSC	CL-1030-BHSD	CL-1030-BHSE	5/8-11	3
CL-1040-BHS	CL-1040-BHSA	CL-1040-BHSB	CL-1040-BHSC	CL-1040-BHSD	CL-1040-BHSE		4

## STAINLESS STEEL (USA)

CL-620-BHS-S	CL-620-BHSA-S	CL-620-BHSB-S	—	—	—	3/8-16	2
CL-630-BHS-S	CL-630-BHSA-S	CL-630-BHSB-S	—	—	—		3
CL-640-BHS-S	CL-640-BHSA-S	CL-640-BHSB-S	—	—	—		4
CL-820-BHS-S	CL-820-BHSA-S	CL-820-BHSB-S	—	—	—	1/2-13	2
CL-830-BHS-S	CL-830-BHSA-S	CL-830-BHSB-S	—	—	—		3
CL-840-BHS-S	CL-840-BHSA-S	CL-840-BHSB-S	—	—	—		4
CL-1030-BHS-S	CL-1030-BHSA-S	CL-1030-BHSB-S	—	—	—	5/8-11	3
CL-1040-BHS-S	CL-1040-BHSA-S	CL-1040-BHSB-S	—	—	—		4

## STEEL (METRIC)

CLM-1050-BHS	CLM-1050-BHSA	CLM-1050-BHSB	CLM-1050-BHSC	CLM-1050-BHSD	—	M10	1.97 (50mm)
CLM-10100-BHS	CLM-10100-BHSA	CLM-10100-BHSB	CLM-10100-BHSC	CLM-10100-BHSD	—		3.94 (100mm)
CLM-1250-BHS	CLM-1250-BHSA	CLM-1250-BHSB	CLM-1250-BHSC	CLM-1250-BHSD	CLM-1250-BHSE	M12	1.97 (50mm)
CLM-12100-BHS	CLM-12100-BHSA	CLM-12100-BHSB	CLM-12100-BHSC	CLM-12100-BHSD	CLM-12100-BHSE		3.94 (100mm)
CLM-1670-BHS	CLM-1670-BHSA	CLM-1670-BHSB	CLM-1670-BHSC	CLM-1670-BHSD	CLM-1670-BHSE	M16	2.76 (70mm)
CLM-16110-BHS	CLM-16110-BHSA	CLM-16110-BHSB	CLM-16110-BHSC	CLM-16110-BHSD	CLM-16110-BHSE		4.33 (110mm)



## MANUFACTURING CO.

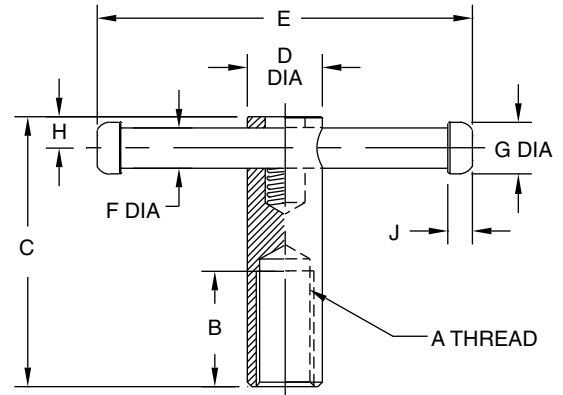
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# BAR-HANDLE NUTS

STEEL: 12L14 STEEL BODY, CARBURIZED HARDENED, BLACK OXIDE FINISH. 12L14 STEEL HANDLE, BLACK OXIDE FINISH.  
 300-SERIES STAINLESS STEEL SPRING.  
 STAINLESS: 300-SERIES STAINLESS STEEL.



Extension nut with a sliding bar handle for excellent leverage. The bar can be moved to any position, for convenient tightening, and is held in place by light spring force. Available in thread sizes from 3/8-16 to 5/8-11 (M10 to M16 in metric).



## STEEL (USA)

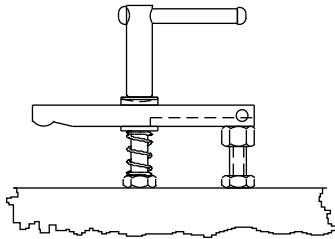
PART NO.	A	B	C	D DIA	E	F DIA	G DIA	H	J
CL-6-BHN	3/8-16	7/8	2-3/8	3/4	3-1/8	5/16	3/8	9/32	9/32
CL-8-BHN	1/2-13	1-1/8	2-3/4	13/16	3-15/16	3/8	1/2	11/32	5/16
CL-10-BHN	5/8-11	1-3/8	3-3/8	1	4-3/4	1/2	5/8	13/32	3/8

## STAINLESS STEEL (USA)

CL-6-BHN-S	3/8-16	7/8	2-3/8	3/4	3-1/8	5/16	3/8	9/32	9/32
CL-8-BHN-S	1/2-13	1-1/8	2-3/4	13/16	3-15/16	3/8	1/2	11/32	5/16
CL-10-BHN-S	5/8-11	1-3/8	3-3/8	1	4-3/4	1/2	5/8	13/32	3/8

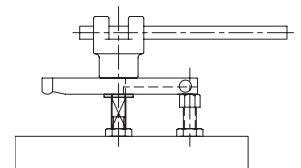
## STEEL (METRIC)

CLM-10-BHN	M10	.79	2.36	3/4	3-1/8	5/16	3/8	9/32	9/32
CLM-12-BHN	M12	.98	2.76	13/16	3-15/16	3/8	1/2	11/32	5/16
CLM-16-BHN	M16	1.38	3.35	1	4-3/4	1/2	5/8	13/32	3/8

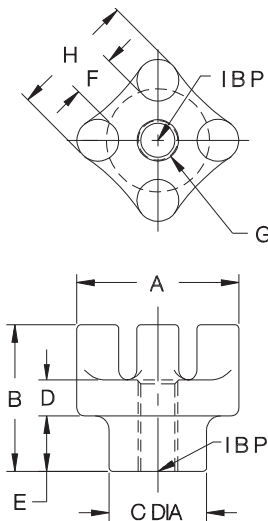


# BAR KNOBS

CAST IRON, ZINC PLATED CLEAR CHROMATE



Heavy-duty knob that can be turned easily by hand, then tightened by inserting a bar between the prongs. Choose from three knob sizes, each available blank or with a choice of tapped holes.



## USA & METRIC

PART NO.	A	B	C DIA	D	E	F	G	H
CL-1-BK	2	2-1/8	1-1/4	1/2	7/8	7/16	BLANK	1-5/8
CL-2-BK							3/8-16	
CL-4-BK							1/2-13	
CL-6-BK							5/8-11	
CLM-2-BK							M10	
CLM-4-BK							M12	
CLM-6-BK	M16							
CL-8-BK	2-1/2	2-3/8	1-1/2	9/16	15/16	11/16	BLANK	2
CL-9-BK							1/2-13	
CL-11-BK							5/8-11	
CL-13-BK							3/4-10	
CLM-9-BK							M12	
CLM-11-BK							M16	
CLM-13-BK	M20							
CL-15-BK	3-1/2	2-3/8	2-1/8	9/16	15/16	1-5/16	BLANK	2-7/8
CL-16-BK							3/4-10	
CL-18-BK							7/8-9	
CL-20-BK							1-8	
CLM-16-BK							M20	
CLM-20-BK							M24	



## MANUFACTURING CO.

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 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# BAR-LOK™ QUICK-ACTING SCREW CLAMPS

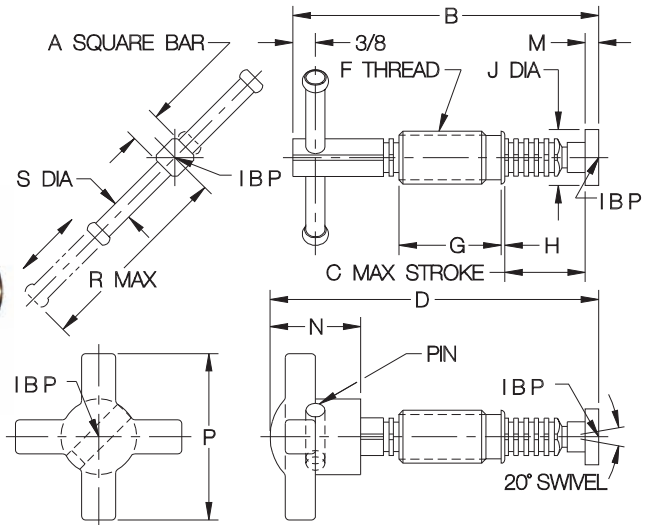
12L14 STEEL, CARBURIZED-HARDENED, ZINC PLATED YELLOW CHROMATE  
KNOB HANDLE: 319 ALUMINUM ALLOY



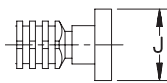
**Sliding Handle**



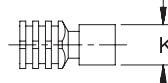
**Knob Handle**



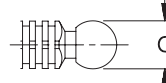
Definitely the best quick-acting screw clamp available anywhere! This patented sliding-bar design works smoothly and positively – just slide the bar forward, then twist to apply force. As strong as a standard screw clamp, but much faster. Choose either a comfortable knob handle or a sliding handle for extra leverage. Available in 3/8", 1/2", and 5/8" bar sizes, each in a choice of several lengths and foot styles. Ball and foot are threaded to allow easy installation and removal, a *lefthand* thread to positively prevent backout when turning the screw counterclockwise. Once the threads clear during installation, the foot rotates and pivots freely (20° included angle).



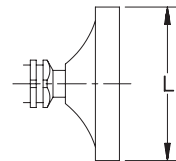
With standard foot:  
CL-14-BLK  
CL-14-BLKN (Delrin®)



With small foot, add A:  
CL-14-BLKA  
CL-14-BLKAN (Delrin®)



With ball foot, add -D:  
CL-14-BLKD



With large foot, add E:  
CL-14-BLKE

### SLIDING HANDLE (USA)

PART NO.	A	B	C	D	F THREAD	G	H	J DIA	K DIA	L DIA	M	N	P	Q	R	S DIA	OLD BAR-LOK NUMBER
CL-14-BLT	3/8	4	1-9/16	—	3/4-10	1-3/8	1/8	.750	.390	1.50	.187	—	—	.500	2-15/16	1/4	S-204-T
CL-15-BLT		5	2-9/16														S-205-T
CL-16-BLT		6	3-9/16														S-206-T
CL-25-BLT	1/2	5	2-3/16	—	7/8-9	1-11/16	1/16	.930	.500	2.00	.218	—	—	.625	3-5/16	5/16	M-205-T
CL-26-BLT		6	3-3/16														M-206-T
CL-28-BLT		8	5-3/16														M-208-T
CL-210-BLT		10	7-3/16														M-210-T
CL-212-BLT	12	9-3/16	M-212-T														
CL-35-BLT	5/8	5	2-3/16	—	1-1/8-7	1-11/16	1/16	.930	.500	2.00	.218	—	—	.625	3-1/4	5/16	H-205-T
CL-36-BLT		6	3-3/16														H-206-T
CL-38-BLT		8	5-3/16														H-208-T
CL-310-BLT		10	7-3/16														H-210-T
CL-312-BLT	12	9-3/16	H-212-T														

### KNOB HANDLE (USA)

CL-14-BLK	3/8	—	1-5/16	4-11/16	3/4-10	1-3/8	1/8	3/4	.390	1.50	.187	1-7/16	2-1/8	.500	—	—	—
CL-15-BLK			2-5/16	5-11/16													
CL-16-BLK			3-5/16	6-11/16													
CL-25-BLK	1/2	—	1-5/8	5-3/8	7/8-9	1-11/16	1/16	15/16	.500	2.00	.218	1-1/2	2-3/4	.625	—	—	—
CL-26-BLK			2-5/8	6-3/8													
CL-28-BLK			4-5/8	8-3/8													
CL-210-BLK			6-5/8	10-3/8													
CL-212-BLK	8-5/8	12-3/8															
CL-35-BLK	5/8	—	1-5/8	5-3/8	1-1/8-7	1-11/16	1/16	15/16	.500	2.00	.218	1-1/2	2-3/4	.625	—	—	—
CL-36-BLK			2-5/8	6-3/8													
CL-38-BLK			4-5/8	8-3/8													
CL-310-BLK			6-5/8	10-3/8													
CL-312-BLK	8-5/8	12-3/8															

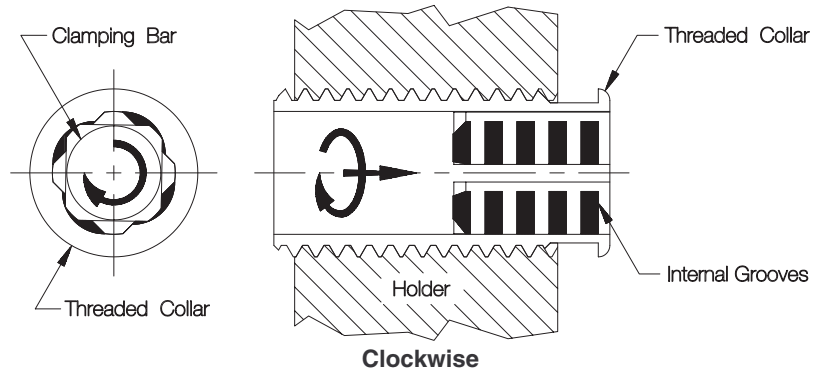
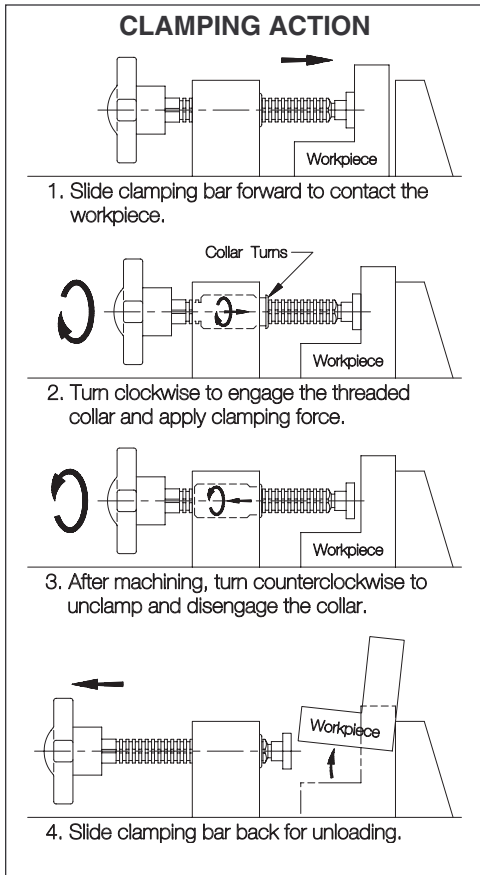


## MANUFACTURING CO.

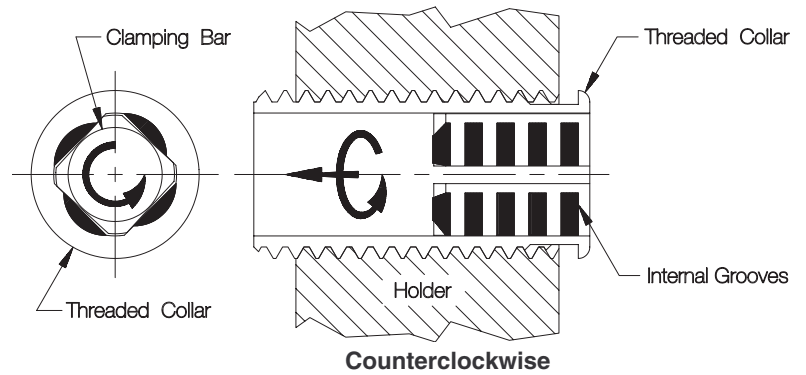
4200 Carr Lane Ct., P.O. Box 191970  
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# BAR-LOK™ QUICK-ACTING SCREW CLAMPS

12L14 STEEL, CARBURIZED-HARDENED, ZINC PLATED YELLOW CHROMATE  
KNOB HANDLE: 319 ALUMINUM ALLOY



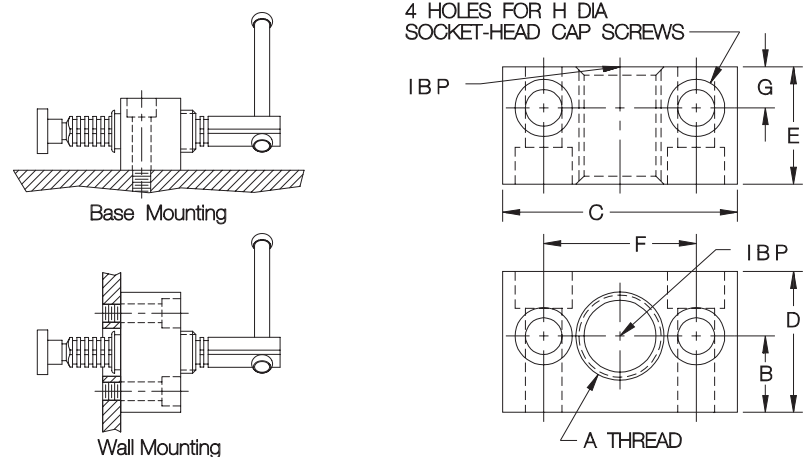
Turning the clamping bar clockwise engages internal grooves in the threaded collar. Both components then turn together as a single unit to apply screw force.



Turning the clamping bar counterclockwise loosens the screw clamp and disengages the collar, allowing the bar to slide back and forth.



**Mounting Block**



**MOUNTING BLOCKS**

PART NO.	A THREAD	B	C	D	E	F	G	H DIA
CL-1-BLM	3/4-10	13/16	2-1/8	1-3/8	1-1/4	1-3/8	7/16	5/16 OR M8
CL-2-BLM	7/8-9	13/16	2-1/2	1-1/2	1-1/4	1-5/8	7/16	3/8 OR M10
CL-3-BLM	1-1/8-7	1	3-1/8	1-3/4	1-1/2	2-1/8	1/2	1/2 OR M12

Versatile mounting base made especially for Bar-Lok™ screw clamps. Attach with two socket-head cap screws. Two sets of mounting holes allow either base mounting or through-hole wall mounting.

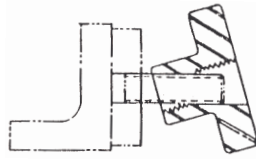


**MANUFACTURING CO.**

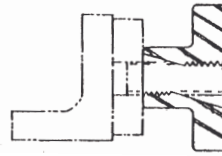
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# QUICK-ACTING KNOBS

SINTERED IRON, BLACK OXIDE FINISH



Tilt knob to slide in and out.



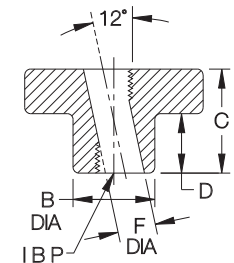
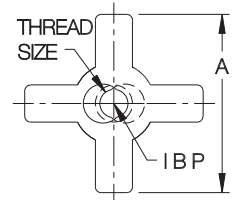
Straighten knob to engage threads for clamping.

## USA

PART NO.	THREAD SIZE	A	B DIA	C	D	F DIA
CL-1-QAK	1/4-20	1-1/8	9/16	5/8	5/16	17/64
CL-2-QAK	5/16-18	1-1/2	11/16	7/8	1/2	21/64
CL-3-QAK	3/8-16	2	13/16	1		25/64
CL-4-QAK	1/2-13	2-1/2	1	1-1/8	9/16	33/64
CL-5-QAK	5/8-11	3	1-1/4	1-1/4	5/8	41/64

## METRIC

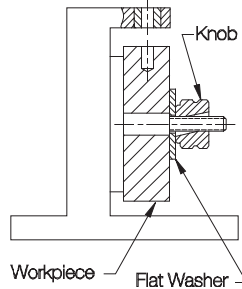
CLM-6-QAK	M6	1-1/8	9/16	5/8	5/16	.25
CLM-8-QAK	M8	1-1/2	11/16	7/8	1/2	.33
CLM-10-QAK	M10	2	13/16	1		.41
CLM-12-QAK	M12	2-1/2	1	1-1/8	9/16	.49
CLM-16-QAK	M16	3	1-1/4	1-1/4	5/8	.65



Quick-acting four-prong knob that slides in and out of clamping position, ideal when the knob must be completely removed for loading. Tilt knob to slide in, then straighten to engage threads and tighten. To remove, loosen knob, then tilt to slide out. Four-prong design provides a firm grip for applications requiring quick tightening and high torque. For full strength, use a stud that extends slightly beyond the knob, to engage all threads.

# QUICK-ACTING KNURLED KNOBS

12L14 STEEL, BLACK OXIDE FINISH

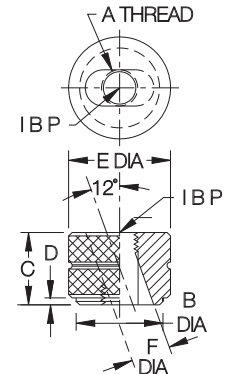


## USA

PART NO.	A	B DIA	C	D	E DIA	F DIA
CL-1-QKK	#10-24	1/2	7/16	1/16	5/8	7/32
CL-2-QKK	1/4-20	5/8	9/16		3/4	9/32
CL-3-QKK	5/16-18	3/4	5/8	1/8	7/8	11/32
CL-4-QKK	3/8-16	7/8	3/4		1	13/32
CL-5-QKK	1/2-13	1	1	1-1/8	17/32	

## METRIC

CLM-5-QKK	M5	.51	.43	.08	5/8	.23
CLM-6-QKK	M6	.63	.55		3/4	.27
CLM-8-QKK	M8	.75	.63	.12	7/8	.35
CLM-10-QKK	M10	.87			1	.42
CLM-12-QKK	M12	.98	.75	.12	1-1/8	.50



Quick-acting knob that slides in and out of clamping position, ideal when the knob must be completely removed for loading. Tilt knob to slide in, then straighten to engage threads and tighten. To remove, loosen knob, then tilt to slide out. For full strength, use a stud that extends slightly beyond the knob, to engage all threads.



## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# KNURLED HEAD SCREWS

STEEL: 12L14, CARBURIZED-HARDENED, BLACK OXIDE FINISH.

STAINLESS STEEL: 300-SERIES, PASSIVATED



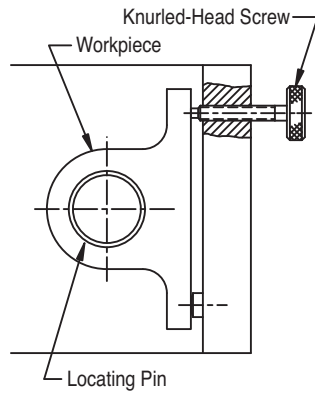
Handy thumb screw. Knurled head provides a positive grip for finger tightening in light clamping applications.

## STEEL (USA)

PART NO.	A	B	C DIA	D	E	F DIA	G
CL-1-KHS	#10-24	1	3/4	1/4	1/4	.12	.09
CL-2-KHS		1-1/2					
CL-3-KHS		2					
CL-1A-KHS	#10-32	1	1	5/16	1/4	.15	.12
CL-2A-KHS		1-1/2					
CL-3A-KHS		2					
CL-4-KHS	1/4-20	1-1/2	1	5/16	1/4	.15	.12
CL-5-KHS		2					
CL-6-KHS		2-1/2					
CL-7-KHS	5/16-18	1-1/2	1-1/8	3/8	1/4	.20	.16
CL-8-KHS		2					
CL-9-KHS		2-1/2					
CL-10-KHS	3/8-16	2	1-1/4	7/16	1/4	.25	.19
CL-11-KHS		2-1/2					
CL-12-KHS		3					
CL-13-KHS	1/2-13	3	1-1/4	1/2	1/4	.34	.25
CL-14-KHS		3-1/2					

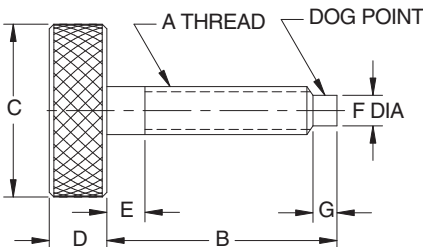
## STAINLESS STEEL (USA)

PART NO.	A	B	C DIA	D	E	F DIA	G
CL-23207	#10-32	3/4	1/2	3/16	1/8	.12	.09
CL-23210		1					
CL-23212		1-1/4					
CL-23215		1-1/2					
CL-23507		3/4					
CL-23510	1/4-20	1	1	5/16	1/8	.15	.12
CL-23512		1-1/4					
CL-23515		1-1/2					
CL-23520		2					
CL-23615		1-1/2					
CL-23620	5/16-18	2	1-1/8	3/8	3/16	.20	.16
CL-23625		2-1/2					
CL-23820		2					
CL-23825	3/8-16	2-1/2	1-1/4	7/16	3/16	.25	.19
CL-23830		3					



## STEEL (METRIC)

PART NO.	A	B	C DIA	D	E	F DIA	G
CLM-1-KHS	M5	.98	3/4	1/4	1/4	.13	.11
CLM-2-KHS		1.57					
CLM-3-KHS		1.97					
CLM-4-KHS	M6	1.57	1	5/16	1/4	.17	.13
CLM-5-KHS		1.97					
CLM-6-KHS		2.56					
CLM-7-KHS	M8	1.57	1-1/8	3/8	1/4	.23	.18
CLM-8-KHS		1.97					
CLM-9-KHS		2.56					
CLM-10-KHS	M10	1.97	1-1/4	7/16	1/4	.27	.19
CLM-11-KHS		2.56					
CLM-12-KHS		2.95					
CLM-13-KHS	M12	2.95	1-1/4	1/2	1/4	.35	.25
CLM-14-KHS		3.54					



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# SWIVEL SCREW CLAMPS

BODY: 12L14 OR 1144 STEEL, HEAT TREATED, ZINC PLATED YELLOW CHROMATE (OR 300-SERIES STAINLESS STEEL)  
 FOOT: 12L14 STEEL, ZINC PLATED YELLOW CHROMATE (OR 300-SERIES STAINLESS STEEL, OR DELRIN®)

Socket-head swivel-screw assemblies that combine the bodies on page 76 with the feet on page 77. The steel version is optionally available with black oxide finish by adding “-BO” to the part number (example: CL-2-SSC-BO). Type A and B feet are optionally available in Delrin® by adding “N” to the part number (examples: CL-2-SSCN, CL-2-SSC-BON, CL-2-SSC-SN).



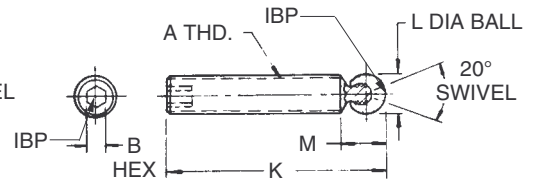
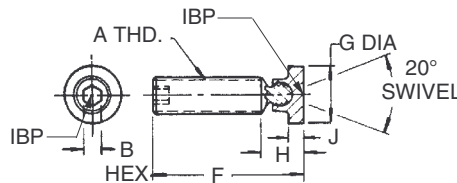
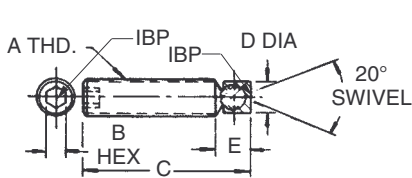
Type A: Small Foot



Type B: Large Foot



Type D: Ball Foot



## USA

TYPE A STEEL PART NO.	TYPE A STAINLESS PART NO.	TYPE B STEEL PART NO.	TYPE B STAINLESS PART NO.	TYPE D STEEL PART NO.	A	B	C	D DIA	E	F	G DIA	H	J	K	L DIA	M
CL-1-SSC	—	CL-20-SSC	—	CL-47-SSC			1/2			19/32				17/32		
CL-2-SSC	CL-2-SSC-S	CL-21-SSC	CL-21-SSC-S	CL-48-SSC	1/4-20	1/8	3/4	3/16	9/32	27/32	3/8	23/64	1/8	25/32	1/4	5/16
CL-3-SSC	CL-3-SSC-S	CL-22-SSC	CL-22-SSC-S	CL-49-SSC			1			1-3/32				1-1/32		
CL-4-SSC	CL-4-SSC-S	CL-23-SSC	CL-23-SSC-S	CL-50-SSC			1-1/2			1-19/32				1-17/32		
CL-5-SSC	—	CL-24-SSC	—	CL-51-SSC			3/4			27/32				25/32		
CL-6-SSC	CL-6-SSC-S	CL-25-SSC	CL-25-SSC-S	CL-52-SSC	5/16-18	5/32	1	1/4	11/32	1-3/32	1/2	27/64	5/32	1-1/32	5/16	23/64
CL-7-SSC	CL-7-SSC-S	CL-26-SSC	CL-26-SSC-S	CL-53-SSC			1-1/2			1-19/32				1-17/32		
CL-8-SSC	CL-8-SSC-S	CL-27-SSC	CL-27-SSC-S	CL-54-SSC			2			2-3/32				2-1/32		
CL-9-SSC	—	CL-28-SSC	—	CL-55-SSC			3/4			7/8				25/32		
CL-10-SSC	—	CL-29-SSC	—	CL-56-SSC			1			1-1/8				1-1/32		
CL-11-SSC	CL-11-SSC-S	CL-30-SSC	CL-30-SSC-S	CL-57-SSC	3/8-16	3/16	1-1/2	19/64	3/8	1-5/8	9/16	5/8	3/16	1-17/32	3/8	7/16
CL-12-SSC	CL-12-SSC-S	CL-31-SSC	CL-31-SSC-S	CL-58-SSC			2			2-1/8				2-1/32		
CL-39-SSC	CL-39-SSC-S	CL-43-SSC	CL-43-SSC-S	CL-59-SSC			3			3-1/8				3-1/32		
CL-14-SSC	—	CL-33-SSC	—	CL-61-SSC			1-1/2			1-9/16				1-19/32		
CL-15-SSC	CL-15-SSC-S	CL-34-SSC	CL-34-SSC-S	CL-62-SSC	1/2-13	1/4	2	13/32	15/32	2-1/16	3/4	17/32	3/16	2-3/32	1/2	9/16
CL-16-SSC	CL-16-SSC-S	CL-35-SSC	CL-35-SSC-S	CL-63-SSC			3			3-1/16				3-3/32		
CL-40-SSC	CL-40-SSC-S	CL-44-SSC	CL-44-SSC-S	CL-64-SSC			4			4-1/16				4-3/32		
CL-18-SSC	—	CL-37-SSC	—	CL-66-SSC			2			2-3/64				2-7/32		
CL-19-SSC	—	CL-38-SSC	—	CL-67-SSC	5/8-11	5/16	3	1/2	5/8	3-3/64	15/16	21/32	7/32	3-7/32	5/8	11/16
CL-41-SSC	—	CL-45-SSC	—	CL-68-SSC			4			4-3/64				4-7/32		
CL-42-SSC	—	CL-46-SSC	—	CL-69-SSC			5			5-3/64				5-7/32		

## METRIC

CLM-1-SSC	—	CLM-20A-SSC	—	CLM-47-SSC			.59			.69				.64		
CLM-2-SSC	—	CLM-21A-SSC	—	CLM-48-SSC	M6	3mm	.79	3/16	9/32	.89	3/8	23/64	1/8	.84	1/4	5/16
CLM-3-SSC	—	CLM-22-SSC	—	CLM-49-SSC			.98			1.08				1.03		
CLM-4-SSC	—	CLM-23-SSC	—	CLM-50-SSC			1.57			1.67				1.62		
CLM-5-SSC	—	CLM-24-SSC	—	CLM-51-SSC			.79			.88				.85		
CLM-6-SSC	—	CLM-25-SSC	—	CLM-52-SSC	M8	4mm	.98	1/4	11/32	1.08	1/2	27/64	5/32	1.05	5/16	23/64
CLM-7-SSC	—	CLM-26-SSC	—	CLM-53-SSC			1.57			1.67				1.64		
CLM-8-SSC	—	CLM-27-SSC	—	CLM-54-SSC			1.97			2.06				2.03		
CLM-9-SSC	—	CLM-28-SSC	—	CLM-55-SSC			.79			.91				.82		
CLM-10-SSC	—	CLM-29-SSC	—	CLM-56-SSC			.98			1.11				1.02		
CLM-11-SSC	—	CLM-30-SSC	—	CLM-57-SSC	M10	5mm	1.57	19/64	3/8	1.70	9/16	5/8	3/16	1.61	3/8	7/16
CLM-12-SSC	—	CLM-31-SSC	—	CLM-58-SSC			1.97			2.10				2.01		
CLM-13-SSC	—	CLM-32-SSC	—	CLM-59-SSC			2.95			3.08				2.99		
CLM-14-SSC	—	CLM-33-SSC	—	CLM-61-SSC			1.57			1.64				1.69		
CLM-15-SSC	—	CLM-34-SSC	—	CLM-62-SSC	M12	6mm	1.97	13/32	15/32	2.03	3/4	17/32	3/16	2.08	1/2	9/16
CLM-16-SSC	—	CLM-35-SSC	—	CLM-63-SSC			2.95			3.01				3.06		
CLM-17-SSC	—	CLM-36-SSC	—	CLM-64-SSC			3.94			4.00				4.05		
CLM-18-SSC	—	CLM-37-SSC	—	CLM-66-SSC			1.97			2.01				2.06		
CLM-19-SSC	—	CLM-38-SSC	—	CLM-67-SSC	M16	8mm	2.95	1/2	5/8	2.99	15/16	21/32	7/32	3.04	5/8	11/16
CLM-20-SSC	—	CLM-39-SSC	—	CLM-68-SSC			3.94			3.98				4.03		
CLM-21-SSC	—	CLM-40-SSC	—	CLM-69-SSC			4.92			4.97				5.02		

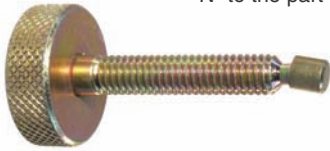


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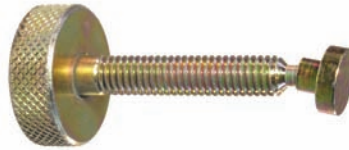
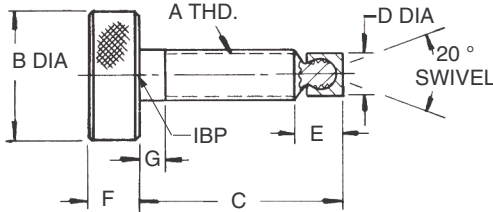
# SWIVEL HEAD SCREWS

BODY: 12L14 STEEL, CARBURIZED-HARDENED, ZINC PLATED YELLOW CHROMATE (OR 300-SERIES STAINLESS STEEL)  
 FOOT: 12L14 STEEL, ZINC PLATED YELLOW CHROMATE (OR 300-SERIES STAINLESS STEEL, OR DELRIN®)

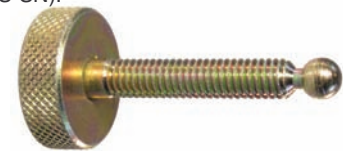
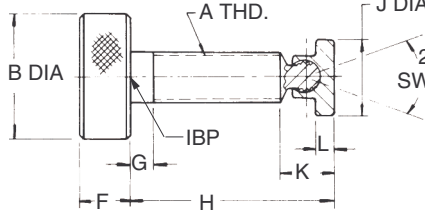
Knurled-head swivel-screw assemblies that combine the bodies on page 76 with the feet on page 77. The steel version is optionally available with a black oxide finish by adding "BO" to the part number (example: CL-1-SHS-BO). Type A and B feet are optionally available in Delrin® by adding "N" to the part number (examples: CL-1-SHSN, CL-1-SHS-BON, CL-1-SHS-SN).



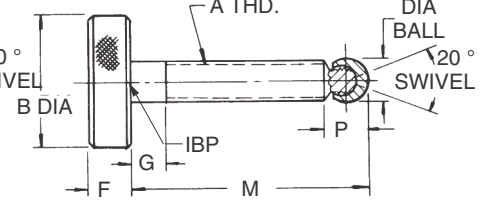
Type A: Small Foot



Type B: Large Foot



Type D: Ball Foot



## USA

TYPE A STEEL PART NO.	TYPE A STAINLESS PART NO.	TYPE B STEEL PART NO.	TYPE B STAINLESS PART NO.	TYPE D STEEL PART NO.	A	B DIA	C	D DIA	E	F	G	H	J DIA	K	L	M	N	P
CL-1-SHS	CL-1-SHS-S	CL-17-SHS	CL-17-SHS-S	CL-47-SHS	1/4-20	1	1	3/16	9/32	5/16	1/8	1-3/32	3/8	23/64	1/8	1-1/32	1/4	5/16
CL-2-SHS	CL-2-SHS-S	CL-18-SHS	CL-18-SHS-S	CL-48-SHS			1-1/2					2-3/32				1-17/32		
CL-3-SHS	CL-3-SHS-S	CL-19-SHS	CL-19-SHS-S	CL-49-SHS			2					3-3/32				2-1/32		
CL-33-SHS	CL-33-SHS-S	CL-40-SHS	CL-40-SHS-S	CL-50-SHS			3					1-3/32				3-1/32		
CL-4-SHS	—	CL-20-SHS	—	CL-51-SHS	5/16-18	1-1/8	1	1/4	11/32	3/8	3/16	1-3/32	1/2	27/64	5/32	1-1/64	5/16	23/64
CL-5-SHS	CL-5-SHS-S	CL-21-SHS	CL-21-SHS-S	CL-52-SHS			1-1/2					1-19/32				1-33/64		
CL-6-SHS	CL-6-SHS-S	CL-22-SHS	CL-22-SHS-S	CL-53-SHS			2					2-3/32				2-1/64		
CL-34-SHS	CL-34-SHS-S	CL-41-SHS	CL-41-SHS-S	CL-54-SHS			3					3-3/32				3-1/64		
CL-8-SHS	—	CL-24-SHS	—	CL-56-SHS	3/8-16	1-1/4	1-1/2	19/64	3/8	7/16	3/16	1-5/8	9/16	5/8	3/16	1-9/16	3/8	7/16
CL-9-SHS	CL-9-SHS-S	CL-25-SHS	CL-25-SHS-S	CL-57-SHS			2					2-1/8				2-1/16		
CL-35-SHS	CL-35-SHS-S	CL-42-SHS	CL-42-SHS-S	CL-58-SHS			3					3-1/8				3-1/16		
CL-36-SHS	CL-36-SHS-S	CL-43-SHS	CL-43-SHS-S	CL-59-SHS			4					4-1/8				4-1/16		
CL-11-SHS	—	CL-27-SHS	—	CL-61-SHS	1/2-13	1-1/4	1-1/2	13/32	15/32	1/2	3/16	1-9/16	3/4	17/32	3/16	1-19/32	1/2	9/16
CL-12-SHS	—	CL-28-SHS	—	CL-62-SHS			2					2-1/16				2-3/32		
CL-13-SHS	CL-13-SHS-S	CL-29-SHS	CL-29-SHS-S	CL-63-SHS			3					3-1/16				3-3/32		
CL-37-SHS	CL-37-SHS-S	CL-44-SHS	CL-44-SHS-S	CL-64-SHS			4					4-1/16				4-3/32		
CL-15-SHS	—	CL-31-SHS	—	CL-66-SHS	5/8-11	1-1/4	2	1/2	5/8	1/2	3/16	2-3/64	15/16	21/32	7/32	2-1/8	5/8	11/16
CL-16-SHS	—	CL-32-SHS	—	CL-67-SHS			3					3-3/64				3-1/8		
CL-38-SHS	—	CL-45-SHS	—	CL-68-SHS			4					4-3/64				4-1/8		
CL-39-SHS	—	CL-46-SHS	—	CL-69-SHS			5					5-3/64				5-1/8		

## METRIC

CLM-1-SHS	—	CLM-17A-SHS	—	CLM-47-SHS	A	B DIA	C	D DIA	E	F	G	H	J DIA	K	L	M	N	P
CLM-2-SHS	—	CLM-18A-SHS	—	CLM-48-SHS	M6	1	.98	3/16	9/32	5/16	1/8	1.08	3/8	23/64	1/8	1.03	1/4	5/16
CLM-3-SHS	—	CLM-19-SHS	—	CLM-49-SHS			1.57					1.67				1.62		
CLM-4-SHS	—	CLM-40-SHS	—	CLM-50-SHS			1.97					2.07				2.02		
CLM-5-SHS	—	CLM-20-SHS	—	CLM-51-SHS			2.95					3.05				3.00		
CLM-6-SHS	—	CLM-21-SHS	—	CLM-52-SHS	M8	1-1/8	.98	1/4	11/32	3/8	3/16	1.08	1/2	27/64	5/32	1.05	5/16	23/64
CLM-7-SHS	—	CLM-22-SHS	—	CLM-53-SHS			1.57					1.67				1.64		
CLM-8-SHS	—	CLM-41-SHS	—	CLM-54-SHS			1.97					2.06				2.03		
CLM-9-SHS	—	CLM-24-SHS	—	CLM-56-SHS			2.95					3.05				3.02		
CLM-10-SHS	—	CLM-25-SHS	—	CLM-57-SHS	M10	1-1/4	1.57	19/64	3/8	7/16	3/16	1.70	9/16	5/8	3/16	1.61	3/8	7/16
CLM-11-SHS	—	CLM-42-SHS	—	CLM-58-SHS			1.97					2.10				2.01		
CLM-12-SHS	—	CLM-43-SHS	—	CLM-59-SHS			2.95					3.08				2.99		
CLM-11A-SHS	—	CLM-27-SHS	—	CLM-61-SHS			3.94					4.06				3.97		
CLM-12A-SHS	—	CLM-28-SHS	—	CLM-62-SHS	M12	1-1/4	1.57	13/32	15/32	1/2	3/16	1.64	3/4	17/32	3/16	1.69	1/2	9/16
CLM-13-SHS	—	CLM-29-SHS	—	CLM-63-SHS			1.97					2.03				2.08		
CLM-14-SHS	—	CLM-44-SHS	—	CLM-64-SHS			2.95					3.01				3.06		
CLM-15-SHS	—	CLM-31-SHS	—	CLM-66-SHS			3.94					4.00				4.05		
CLM-16-SHS	—	CLM-32-SHS	—	CLM-67-SHS	M16	1-1/4	1.97	1/2	5/8	1/2	3/16	2.01	15/16	21/32	7/32	2.06	5/8	11/16
CLM-17-SHS	—	CLM-45-SHS	—	CLM-68-SHS			2.95					3.00				3.05		
CLM-18-SHS	—	CLM-46-SHS	—	CLM-69-SHS			3.94					3.98				4.03		
							4.92					4.97				5.02		



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# BODIES FOR SWIVEL SCREWS

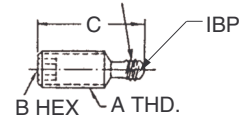
STEEL: 12L14 OR 1144, HEAT TREATED, ZINC PLATED YELLOW CHROMATE (BLACK OXIDE OPTIONAL)  
 STAINLESS STEEL: 300-SERIES



**Socket Head**

Swivel-screw bodies that accept any of the feet shown on the opposite page. Socket-head version allows applying strong clamping force using a hex wrench. Patented.

D LEFT HAND THD.



## SOCKET HEAD (USA)

PART NO. STEEL ZINC PLATED	PART NO. STEEL BLACK OXIDE	PART NO. STAINLESS STEEL	A	B	C	D
CL-1-BSS	CL-1-BSS-BO	—	1/4-20	1/8	15/32	#8-36 L.H.
CL-2-BSS	CL-2-BSS-BO	CL-2-BSS-S			23/32	
CL-3-BSS	CL-3-BSS-BO	CL-3-BSS-S			31/32	
CL-4-BSS	CL-4-BSS-BO	CL-4-BSS-S			1-15/32	
CL-5-BSS	CL-5-BSS-BO	—	5/16-18	5/32	23/32	#12-28 L.H.
CL-6-BSS	CL-6-BSS-BO	CL-6-BSS-S			31/32	
CL-7-BSS	CL-7-BSS-BO	CL-7-BSS-S			1-15/32	
CL-8-BSS	CL-8-BSS-BO	CL-8-BSS-S			1-31/32	
CL-9-BSS	CL-9-BSS-BO	—	3/8-16	3/16	11/16	1/4-28 L.H.
CL-10-BSS	CL-10-BSS-BO	—			15/16	
CL-11-BSS	CL-11-BSS-BO	CL-11-BSS-S			1-7/16	
CL-12-BSS	CL-12-BSS-BO	CL-12-BSS-S			1-15/16	
CL-13-BSS	CL-13-BSS-BO	CL-13-BSS-S	1/2-13	1/4	2-15/16	5/16-24 L.H.
CL-16-BSS	CL-16-BSS-BO	CL-16-BSS-S			1-15/16	
CL-17-BSS	CL-17-BSS-BO	CL-17-BSS-S			2-15/16	
CL-18-BSS	CL-18-BSS-BO	CL-18-BSS-S			3-15/16	
CL-20-BSS	CL-20-BSS-BO	—	5/8-11	5/16	1-15/16	7/16-20 L.H.
CL-21-BSS	CL-21-BSS-BO	—			2-15/16	
CL-22-BSS	CL-22-BSS-BO	—			3-15/16	
CL-23-BSS	CL-23-BSS-BO	—			4-15/16	

## SOCKET HEAD (METRIC)

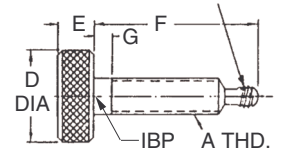
PART NO. STEEL ZINC PLATED	PART NO. STEEL BLACK OXIDE	A	B	C	D
CLM-1-BSS	CLM-1-BSS-BO	M6	3mm	.56	#8-36 L.H.
CLM-2-BSS	CLM-2-BSS-BO			.76	
CLM-3-BSS	CLM-3-BSS-BO			.95	
CLM-4-BSS	CLM-4-BSS-BO			1.54	
CLM-5-BSS	CLM-5-BSS-BO	M8	4mm	.74	#12-28 L.H.
CLM-6-BSS	CLM-6-BSS-BO			.94	
CLM-7-BSS	CLM-7-BSS-BO			1.53	
CLM-8-BSS	CLM-8-BSS-BO			1.92	
CLM-9-BSS	CLM-9-BSS-BO	M10	5mm	.73	1/4-28 L.H.
CLM-10-BSS	CLM-10-BSS-BO			.93	
CLM-11-BSS	CLM-11-BSS-BO			1.52	
CLM-12-BSS	CLM-12-BSS-BO			1.92	
CLM-13-BSS	CLM-13-BSS-BO	M12	6mm	2.90	5/16-24 L.H.
CLM-15-BSS	CLM-15-BSS-BO			1.52	
CLM-16-BSS	CLM-16-BSS-BO			1.91	
CLM-17-BSS	CLM-17-BSS-BO			3.88	
CLM-20-BSS	CLM-20-BSS-BO	M16	8mm	1.89	7/16-20 L.H.
CLM-21-BSS	CLM-21-BSS-BO			2.87	
CLM-22-BSS	CLM-22-BSS-BO			3.86	
CLM-23-BSS	CLM-23-BSS-BO			4.85	



**Knurled Head**

Similar to the above screws, except with a knurled head for finger tightening.

H LEFT HAND THD.



## KNURLED HEAD (USA)

PART NO. STEEL ZINC PLATED	PART NO. STEEL BLACK OXIDE	STAINLESS STEEL PART NO.	A	D DIA	E	F	G	H
CL-24-BSS	CL-24-BSS-BO	CL-24-BSS-S	1/4-20	1	5/16	31/32	1/8	#8-36 L.H.
CL-25-BSS	CL-25-BSS-BO	CL-25-BSS-S				1-15/32		
CL-26-BSS	CL-26-BSS-BO	CL-26-BSS-S				1-31/32		
CL-27-BSS	CL-27-BSS-BO	CL-27-BSS-S				2-31/32		
CL-28-BSS	CL-28-BSS-BO	—	5/16-18	1-1/8	3/8	31/32	3/16	#12-28 L.H.
CL-29-BSS	CL-29-BSS-BO	CL-29-BSS-S				1-15/32		
CL-30-BSS	CL-30-BSS-BO	CL-30-BSS-S				1-31/32		
CL-31-BSS	CL-31-BSS-BO	CL-31-BSS-S				2-31/32		
CL-33-BSS	CL-33-BSS-BO	—	3/8-16	1-1/4	7/16	1-7/16	3/16	1/4-28 L.H.
CL-34-BSS	CL-34-BSS-BO	CL-34-BSS-S				1-15/16		
CL-35-BSS	CL-35-BSS-BO	CL-35-BSS-S				2-15/16		
CL-36-BSS	CL-36-BSS-BO	CL-36-BSS-S				3-15/16		
CL-38-BSS	CL-38-BSS-BO	—	1/2-13	1-1/4	1/2	1-7/16	3/16	5/16-24 L.H.
CL-39-BSS	CL-39-BSS-BO	—				1-15/16		
CL-40-BSS	CL-40-BSS-BO	CL-40-BSS-S				2-15/16		
CL-41-BSS	CL-41-BSS-BO	CL-41-BSS-S				3-15/16		
CL-43-BSS	CL-43-BSS-BO	—	5/8-11	1-1/4	1/2	1-15/16	3/16	7/16-20 L.H.
CL-44-BSS	CL-44-BSS-BO	—				2-15/16		
CL-45-BSS	CL-45-BSS-BO	—				3-15/16		
CL-46-BSS	CL-46-BSS-BO	—				4-15/16		

## KNURLED HEAD (METRIC)

PART NO. STEEL ZINC PLATED	PART NO. STEEL BLACK OXIDE	A	D DIA	E	F	G	H
CLM-24-BSS	CLM-24-BSS-BO	M6	1	5/16	.95	1/8	#8-36 L.H.
CLM-25-BSS	CLM-25-BSS-BO				1.54		
CLM-26-BSS	CLM-26-BSS-BO				1.94		
CLM-27-BSS	CLM-27-BSS-BO				2.92		
CLM-28-BSS	CLM-28-BSS-BO	M8	1-1/8	3/8	.94	3/16	#12-28 L.H.
CLM-29-BSS	CLM-29-BSS-BO				1.53		
CLM-30-BSS	CLM-30-BSS-BO				1.92		
CLM-31-BSS	CLM-31-BSS-BO				2.91		
CLM-33-BSS	CLM-33-BSS-BO	M10	1-1/4	7/16	1.52	3/16	1/4-28 L.H.
CLM-34-BSS	CLM-34-BSS-BO				1.92		
CLM-35-BSS	CLM-35-BSS-BO				2.90		
CLM-36-BSS	CLM-36-BSS-BO				3.88		
CLM-38-BSS	CLM-38-BSS-BO	M12	1-1/4	1/2	1.52	3/16	5/16-24 L.H.
CLM-39-BSS	CLM-39-BSS-BO				1.91		
CLM-40-BSS	CLM-40-BSS-BO				2.89		
CLM-41-BSS	CLM-41-BSS-BO				3.88		
CLM-43-BSS	CLM-43-BSS-BO	M16	1-1/4	1/2	1.89	3/16	7/16-20 L.H.
CLM-44-BSS	CLM-44-BSS-BO				2.88		
CLM-45-BSS	CLM-45-BSS-BO				3.86		
CLM-46-BSS	CLM-46-BSS-BO				4.85		



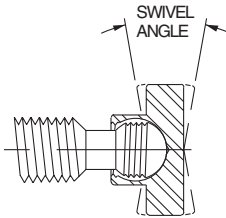
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# FEET FOR SWIVEL SCREWS

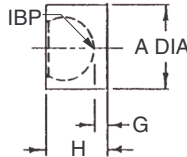
STEEL: (TYPES A, B, D, E), 12L14 STEEL, ZINC PLATED YELLOW CHROMATE (BLACK OXIDE OPTIONAL)  
 STEEL (TYPE C): 1018 STEEL, CARBURIZED HARDENED, ZINC PLATED YELLOW CHROMATE (BLACK OXIDE OPTIONAL)  
 STAINLESS: 300-SERIES STAINLESS STEEL  
 DELRIN®: WHITE DELRIN® 500

Matching feet for the swivel-screw bodies on the opposite page. Types A, B, C, and D can be used with any body-thread size. Type E can be used with the largest two sizes.



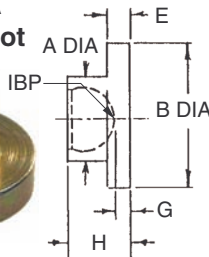
Ball and foot are threaded to allow easy installation and removal, a *lefthand* thread to positively prevent backout when turning the screw counterclockwise. Once the threads clear during installation, the foot rotates and pivots freely (20° included angle). Note: Delrin® feet are not threaded — they snap on and off.

## TYPE A — SMALL FOOT



PART NO. STEEL ZINC PLATED	PART NO. STEEL BLACK OXIDE	PART NO. STAINLESS STEEL	PART NO. DELRIN®	FITS BODY THREAD SIZE	A DIA	H	G
CL-1A-FSS	CL-1A-FSS-BO	CL-1A-FSS-S	CL-1A-FSSN	1/4-20 and M6	.187	.200	.031
CL-2A-FSS	CL-2A-FSS-BO	CL-2A-FSS-S	CL-2A-FSSN	5/16-18 and M8	.250	.255	.046
CL-3A-FSS	CL-3A-FSS-BO	CL-3A-FSS-S	CL-3A-FSSN	3/8-16 and M10	.298	.315	.053
CL-4A-FSS	CL-4A-FSS-BO	CL-4A-FSS-S	CL-4A-FSSN	1/2-13 and M12	.390	.359	.058
CL-5A-FSS	CL-5A-FSS-BO	CL-5A-FSS-S	CL-5A-FSSN	5/8-11 and M16	.500	.470	.076

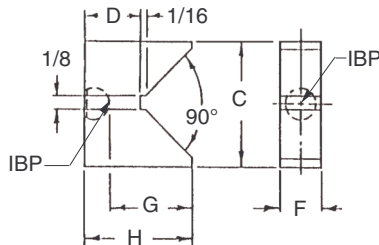
Type A Small Foot



## TYPE B — LARGE FOOT

PART NO. STEEL ZINC PLATED	PART NO. STEEL BLACK OXIDE	PART NO. STAINLESS STEEL	PART NO. DELRIN®	FITS BODY THREAD SIZE	A DIA	B DIA	E	G	H
CL-1B-FSS	CL-1B-FSS-BO	CL-1B-FSS-S	CL-1B-FSSN	1/4-20 and M6	.187	.375	.125	.131	.300
CL-2B-FSS	CL-2B-FSS-BO	CL-2B-FSS-S	CL-2B-FSSN	5/16-18 and M8	.250	.500	.156	.141	.350
CL-3B-FSS	CL-3B-FSS-BO	CL-3B-FSS-S	CL-3B-FSSN	3/8-16 and M10	.298	.562	.187	.177	.437
CL-4B-FSS	CL-4B-FSS-BO	CL-4B-FSS-S	CL-4B-FSSN	1/2-13 and M12	.390	.750	.187	.119	.420
CL-5B-FSS	CL-5B-FSS-BO	CL-5B-FSS-S	CL-5B-FSSN	5/8-11 and M16	.500	.930	.218	.121	.515

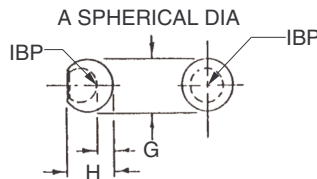
Type B Large Foot



## TYPE C — VEE FOOT

PART NO. STEEL ZINC PLATED	PART NO. STEEL BLACK OXIDE	FITS BODY THREAD SIZE	C	D	F	G	H
CL-1C-FSS	CL-1C-FSS-BO	1/4-20 and M6	1.0	.50	.312	.706	.875
CL-2C-FSS	CL-2C-FSS-BO	5/16-18 and M8	1.0	.562	.375	.729	.938
CL-3C-FSS	CL-3C-FSS-BO	3/8-16 and M10	1.0	.625	.438	.739	1.000
CL-4C-FSS	CL-4C-FSS-BO	1/2-13 and M12	2.0	.688	.500	1.199	1.500
CL-5C-FSS	CL-5C-FSS-BO	5/8-11 and M16	2.0	.750	.625	1.231	1.625

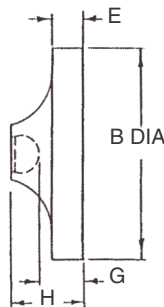
Type C Vee Foot



## TYPE D — BALL FOOT

PART NO. STEEL ZINC PLATED	PART NO. STEEL BLACK OXIDE	FITS BODY THREAD SIZE	A DIA	G	H
CL-1D-FSS	CL-1D-FSS-BO	1/4-20 and M6	.250	.051	.220
CL-2D-FSS	CL-2D-FSS-BO	5/16-18 and M8	.312	.071	.280
CL-3D-FSS	CL-3D-FSS-BO	3/8-16 and M10	.375	.064	.325
CL-4D-FSS	CL-4D-FSS-BO	1/2-13 and M12	.500	.144	.443
CL-5D-FSS	CL-5D-FSS-BO	5/8-11 and M16	.620	.137	.531

Type D Ball Foot



## TYPE E — EXTRA-LARGE FOOT

PART NO. STEEL ZINC PLATED	PART NO. STEEL BLACK OXIDE	FITS BODY THREAD SIZE	B DIA	E	G	H
CL-4E-FSS	CL-4E-FSS-BO	1/2-13 and M12	1.50	1/4	.26	.56
CL-5E-FSS	CL-5E-FSS-BO	5/8-11 and M16	2.00	5/16	.31	.70

Type E Extra-Large Foot



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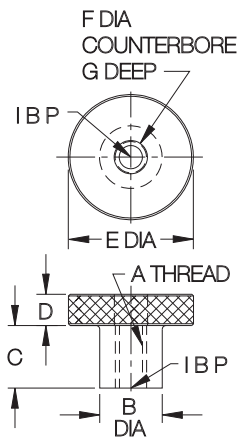
# KNURLED KNOBS

STEEL: 12L14, CARBURIZED-HARDENED, BLACK OXIDE FINISH. STAINLESS STEEL: 300-SERIES, PASSIVATED



**NOW ALSO AVAILABLE IN METRIC!**

High-quality knurled-head knob provides a positive grip for quick finger tightening in light clamping applications. Available in steel with a black oxide finish or stainless steel.



### STEEL (USA)

PART NO.	A	B DIA	C	D	E DIA
CL-4-KK	1/4-20	5/8	1/2	1/4	1
CL-5-KK	5/16-18	5/8	1/2	5/16	1-1/4
CL-6-KK	3/8-16	3/4	5/8	1/2	1-1/4
CL-8-KK	1/2-13	1	3/4	1/2	1-1/2

### STEEL (METRIC)

CLM-5-KK	M5	.39	.30	.16	.79
CLM-6-KK	M6	.47	.39	.20	.94
CLM-8-KK	M8	.63	.47	.24	1.18
CLM-10-KK	M10	.79	.59	.31	1.42
CLM-12-KK	M12	.79	.59	.31	1.57

### STAINLESS STEEL (USA)

PART NO.	A	B DIA	C	D	E DIA	F DIA	G
CL-16312	#10-24	3/8	1/4	3/16	1/2	NONE	NONE
CL-16322			1/2	3/16	1	13/64	1/4
CL-16314			1/4	3/16	1	NONE	NONE
CL-16324			1/2	3/16	1	13/64	1/4
CL-16412	#10-32	3/8	1/4	3/16	1/2	NONE	NONE
CL-16422			1/2	3/16	1	13/64	1/4
CL-16414			1/4	3/16	1	NONE	NONE
CL-16424			1/2	3/16	1	13/64	1/4
CL-16513	1/4-20	1/2	1/4	1/4	3/4	NONE	NONE
CL-16514			1/4	1/4	1	NONE	NONE
CL-16524			1/2	1/4	1	17/64	1/4
CL-16534			3/4	1/4	1	17/64	1/2
CL-16625	5/16-18	5/8	1/2	5/16	1-1/4	21/64	1/4
CL-16635			3/4	5/16	1-1/4	21/64	1/2
CL-16725	3/8-16	3/4	1/2	3/8	1-1/4	25/64	1/4
CL-16735			3/4	3/8	1-1/4	25/64	1/2
CL-8-KK-S	1/2-13	1	3/4	1/2	1-1/2	NONE	NONE

### STAINLESS STEEL (METRIC)

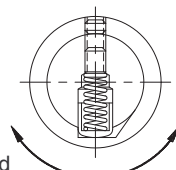
CLM-5-KK-S	M5	.39	.30	.16	.79	NONE	NONE
CLM-6-KK-S	M6	.47	.39	.20	.94		
CLM-8-KK-S	M8	.63	.47	.24	1.18		
CLM-10-KK-S	M10	.79	.59	.31	1.42		
CLM-12-KK-S	M12	.79	.59	.31	1.57		

# ADJUSTABLE-TORQUE KNOBS

KNOB: 12L14 STEEL, BLACK OXIDE FINISH  
SPRING: 17-7 PH STAINLESS STEEL

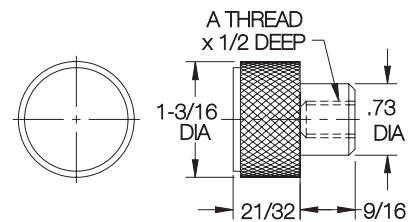


Controlled Torque Clockwise



Positive Retraction Counterclockwise

**NOW ALSO AVAILABLE IN METRIC!**



### USA

PART NO.	A	ADJUSTMENT RANGE	
		TORQUE (IN.-LBS)	END FORCE (LBS)*
CL-4-ATK	1/4-20	3-6	10-125
CL-5-ATK	5/16-18		10-125
CL-6-ATK	3/8-16		10-125
CL-8-ATK	1/2-13		10-125

### METRIC

CLM-6-ATK	M6	3-6	10-125
CLM-8-ATK	M8		10-125
CLM-10-ATK	M10		10-125
CLM-12-ATK	M12		10-125

Knurled knob that exerts positive, repeatable force. Clockwise, the knob declutches and turns freely when you reach the desired torque. Counterclockwise, the knob locks for positive retraction. Can be used as a controlled-torque nut, or as a thumb screw by installing a custom-made screw in the tapped hole.

To set desired force, first remove the outer cover screw at the side of the knob, to expose the adjustment screw. Next, insert a hex wrench to turn the adjustment screw until desired torque is achieved. Reinstall the outer cover screw when finished. Torque can be adjusted from 3 to 6 inch-lbs, resulting in a contact force of 10 to 125 lbs, but these values are approximate. Force can vary +/- 30% depending on lubrication and other operating conditions.

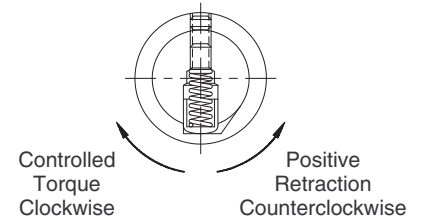


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# ADJUSTABLE-TORQUE THUMB SCREWS

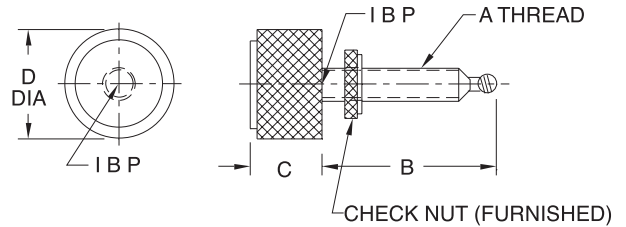
SCREW: 12L14 STEEL, CARBURIZED-HARDENED, BLACK OXIDE FINISH  
 KNOB: 12L14 STEEL, BLACK OXIDE FINISH  
 SPRING: MUSIC WIRE



Knurled-head thumb screw that exerts positive, repeatable force. Clockwise, the knob declutches and turns freely when you reach the desired torque. Counterclockwise, the knob locks for positive retraction. Adjustable-Torque Thumb Screws are furnished with your choice of swivel foot, and a Knurled Check Nut.

To set desired force, first remove the outer cover screw at the side of the knob, to expose the adjustment screw. Next, insert a hex wrench to turn the adjustment screw until desired torque is achieved. Reinstall the outer cover screw when finished. Torque can be adjusted from 3 to 6 inch-lbs, resulting in a contact force of 10 to 125 lbs, but these values are approximate. Force can vary +/- 30% depending on lubrication and other operating conditions.

Choice of four foot types. Adjustable-Torque Thumb Screws use our patented left-hand-thread swivel-foot system. The ball end of the body screws into the foot for easy installation and removal. Once the ball threads pass beyond the foot threads, the foot can rotate and pivot freely (20° total angle). Foot threads are left-hand to positively prevent accidental backout during use. Delrin® feet are optional for types A and B. To order with a Delrin® foot, add "N" to the part number, e.g. CL-415-TSAN. Note: Delrin® feet are not threaded – they snap on and off.



## USA

PART NO.					A	B	C	D DIA	ADJUSTMENT RANGE	
DOG POINT	A FOOT	B FOOT	C FOOT	D FOOT					TORQUE (IN.-LBS)	END FORCE (LBS)*
CL-312-TS	—	—	—	—	#10-24	1-1/4	21/32	15/16	3-6	10-125
CL-312A-TS	—	—	—	—	#10-32	—				
—	CL-415-TSA	CL-415-TSB	CL-415-TSC	CL-415-TSD	1/4-20	1-1/2	21/32	15/16	3-6	10-125
—	CL-425-TSA	CL-425-TSB	CL-425-TSC	CL-425-TSD	—	2-1/2				
—	CL-517-TSA	CL-517-TSB	CL-517-TSC	CL-517-TSD	5/16-18	1-3/4	21/32	1-3/16	3-6	10-125
—	CL-527-TSA	CL-527-TSB	CL-527-TSC	CL-527-TSD		2-3/4				
—	CL-620-TSA	CL-620-TSB	CL-620-TSC	CL-620-TSD	3/8-16	2	21/32	1-3/16	3-6	10-125
—	CL-630-TSA	CL-630-TSB	CL-630-TSC	CL-630-TSD		3				
—	CL-820-TSA	CL-820-TSB	CL-820-TSC	CL-820-TSD	1/2-13	2	21/32	1-3/16	3-6	10-125
—	CL-830-TSA	CL-830-TSB	CL-830-TSC	CL-830-TSD		3				
—	CL-1020-TSA	CL-1020-TSB	CL-1020-TSC	CL-1020-TSD	5/8-11	2	21/32	1-3/16	3-6	10-125
—	CL-1030-TSA	CL-1030-TSB	CL-1030-TSC	CL-1030-TSD		3				

## METRIC

PART NO.					A	B	C	D DIA	ADJUSTMENT RANGE	
DOG POINT	A FOOT	B FOOT	C FOOT	D FOOT					TORQUE (IN.-LBS)	END FORCE (LBS)*
CLM-5-TS	—	—	—	—	M5	1.18	21/32	15/16	3-6	10-125
—	CLM-6-TSA	CLM-6-TSB	CLM-6-TSC	CLM-6-TSD	M6	2.53				
—	CLM-8-TSA	CLM-8-TSB	CLM-8-TSC	CLM-8-TSD	M8	2.71	21/32	1-3/16	3-6	10-125
—	CLM-10-TSA	CLM-10-TSB	CLM-10-TSC	CLM-10-TSD	M10	2.90				
—	CLM-12-TSA	CLM-12-TSB	CLM-12-TSC	CLM-12-TSD	M12	2.89	21/32	1-3/16	3-6	10-125
—	CLM-16-TSA	CLM-16-TSB	CLM-16-TSC	CLM-16-TSD	M16	2.88				

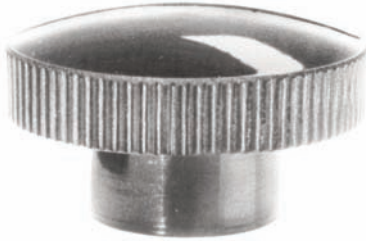
\* End force can vary +/-30% depending on lubrication and other operating conditions.



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# KNURLED KNOBS

KNOB: BLACK PHENOLIC PLASTIC OR THERMOPLASTIC, WITH BRASS INSERT  
 STUD: MILD STEEL, ZINC PLATED CLEAR CHROMATE



5/16-18 CL-642-KTK  
 3/8-16 CL-652-KTK  
 M8 CLM-642-KTK  
 M10 CLM-652-KTK

**Phenolic — Tapped**



**Phenolic — Stud Type**

3/8-16 X 1 CL-652-KTK-16  
 M10 X 25mm CLM-652-KTK-25



**Phenolic — Stud Type Short Hub**

3/8-16 X 1 CL-656-KTK-16



1/4-20 CL-532-KTK  
 5/16-18 CL-542-KTK  
 M6 CLM-532-KTK  
 M8 CLM-542-KTK



#10-32 CL-424-KTK  
 1/4-20 CL-432-KTK  
 M5 CLM-422-KTK  
 M6 CLM-432-KTK



#10-32 CL-324-KTK  
 1/4-20 CL-332-KTK  
 M5 CLM-322-KTK



#6-32 CL-202-KTK  
 #8-32 CL-212-KTK  
 #10-32 CL-224-KTK  
 1/4-20 CL-232-KTK  
 5/16-18 CL-242-KTK

**Thermoplastic — Tapped**



1/4-20 X 1 CL-432-KTK-16  
 M6 X 25mm CLM-432-KTK-25

#8-32 X 1/2 CL-312-KTK-8  
 #10-32 X 1/2 CL-324-KTK-8  
 #10-32 X 1 CL-324-KTK-16  
 1/4-20 X 1/2 CL-332-KTK-8  
 M5 X 20mm CLM-322-KTK-20

## THERMOPLASTIC — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D	E	F
CL-202-KTK	3/4	15/32	5/8	1/4	#6-32	5/16
CL-212-KTK					#8-32	
CL-224-KTK					#10-32	
CL-232-KTK					1/4-20	
CL-242-KTK					5/16-18	

## PHENOLIC — TAPPED (USA & METRIC)

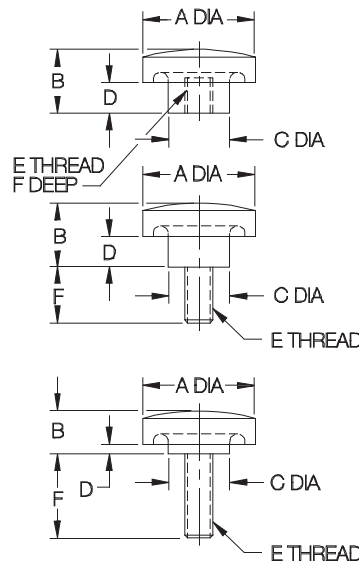
CL-124-KTK	5/8	9/16	1/2	—	#10-32	5/16
CL-324-KTK	3/4	17/32	7/16	1/16	#10-32	5/16
CL-332-KTK					1/4-20	
CLM-322-KTK	1	21/32	5/8	5/16	M5	3/8
CL-424-KTK					#10-32	
CL-432-KTK					1/4-20	
CLM-422-KTK					M5	
CLM-432-KTK					M6	
CL-532-KTK	1-3/8	25/32	3/4	3/8	1/4-20	7/16
CL-542-KTK					5/16-18	
CLM-532-KTK					M6	
CLM-542-KTK	1-7/8	1	1	1/2	M8	7/16
CL-642-KTK					5/16-18	
CL-652-KTK					3/8-16	
CLM-642-KTK					M8	
CLM-652-KTK					M10	1/2

## PHENOLIC — STUD TYPE (USA & METRIC)

CL-312-KTK-8	3/4	17/32	7/16	1/16	#8-32	1/2
CL-324-KTK-8					#10-32	1
CL-324-KTK-16					1/4-20	1/2
CL-332-KTK-8					M5	.79
CLM-322-KTK-20					M5	.79
CL-432-KTK-16	1	21/32	5/8	5/16	1/4-20	1
CLM-432-KTK-25					M6	.98
CL-532-KTK-8					1/4-20	1/2
CL-542-KTK-16	1-3/8	25/32	3/4	3/8	5/16-18	1
CLM-542-KTK-25					M8	.98
CL-652-KTK-16	1-7/8	1	1	1/2	3/8-16	1
CLM-652-KTK-25					M10	.98

## PHENOLIC — STUD TYPE, SHORT HUB (USA)

CL-406-KTK-12	1	13/32	1/2	1/16	#6-32	3/4
CL-436-KTK-12					1/4-20	
CL-656-KTK-16					3/8-16	



**NOW ALSO AVAILABLE IN METRIC!**

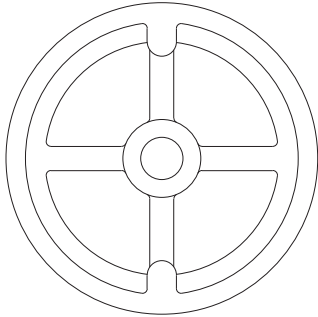
Knurled head provides a positive grip for finger tightening in light clamping applications. Choice of six knob sizes. Molded-in brass insert provides superior thread strength. Also available with a molded-in clamping stud. Non-standard thread sizes, other lengths of molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.



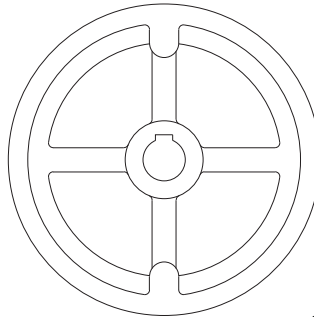
## MANUFACTURING CO.

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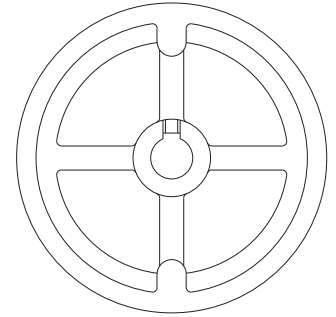
# HAND-WHEEL MODIFICATIONS



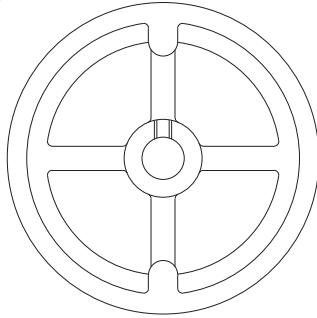
**Bored Hole**



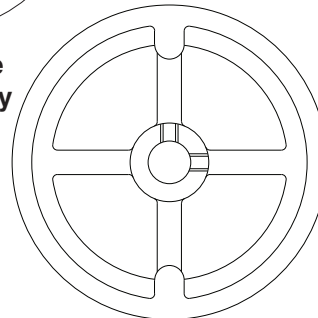
**Bored Hole with Keyway**



**Bored Hole with Setscrew Hole over Keyway**



**Bored Hole with Setscrew Hole**



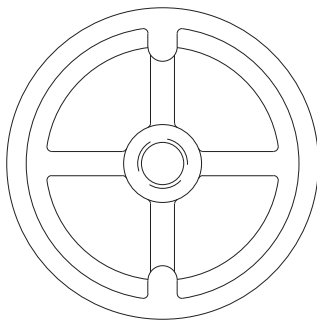
**Bored Hole with 2 Setscrew Holes at 90°**

## BORE SIZE

HAND WHEEL DIA	STANDARD BORE SIZE (+0/+ .002)	MAXIMUM BORE SIZE (HWAFA, HWSFA)	MAXIMUM BORE SIZE (HWAFA, HWSFI)
4	.375	.750	.375
5	.375	1.000	.500
6	.500	1.125	.500
8	.625	1.375	.875
10	.625	1.500	1.000
12	.750	2.000	1.500
14	1.000	2.000	1.500

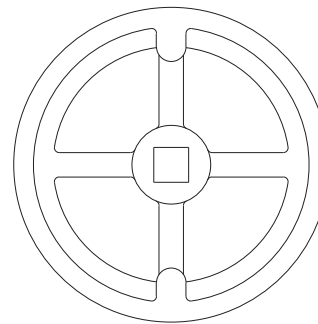
## KEYWAYS & SETSCREWS

BORE SIZE	STANDARD SQUARE KEYWAY	STANDARD SETSCREW HOLE
.375-.438	3/32	#10-32
.439-.562	1/8	#10-32
.563-.875	3/16	1/4-20
.876-1.250	1/4	5/16-18
1.251-1.375	5/16	3/8-16
1.376-1.750	3/8	3/8-16
1.751-2.000	1/2	1/2-13



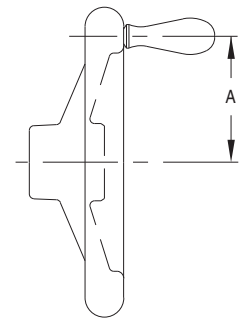
## TAPPED HOLE

HAND WHEEL DIA	AVAILABLE THREAD SIZES (HWAFA, HWSFA)	AVAILABLE THREAD SIZES (HWAFA, HWSFI)
4	3/8 to 3/4, M10 to M20	3/8, M10
5	3/8 TO 1, M10 to M24	3/8 to 1/2, M10 to M12
6	1/2 to 1-1/4, M12 to M30	1/2, M12
8	1/2 to 1-3/8, M12 to M36	1/2 to 7/8, M12 to M22
10	5/8 to 1-1/2, M16 to M36	5/8 to 1, M16 to M24
12	3/4 to 2, M20 to M48	3/4 to 1-1/2, M20 to M36
14	1 to 2, M24 to M48	1 to 1-1/2, M24 to M36



## SQUARE HOLE

HAND WHEEL DIA	AVAILABLE SQUARE HOLE SIZES (HWAFA, HWSFA)	AVAILABLE SQUARE HOLE SIZES (HWAFA, HWSFI)
4	1/2	—
5	1/2, 5/8	—
6	1/2, 5/8	—
8	1/2, 5/8	1/2, 5/8
10	1/2, 5/8	1/2, 5/8
12	1/2, 5/8	1/2, 5/8
14	1/2, 5/8	1/2, 5/8



## HANDLE INSTALLATION

HAND WHEEL DIA	A (HWAFA, HWSFA, HWAFA, HWSFI)
4	1-9/16
5	2
6	2-1/2
8	3-1/4
10	4-3/16
12	5-1/8
14	6-1/8



## MANUFACTURING CO.

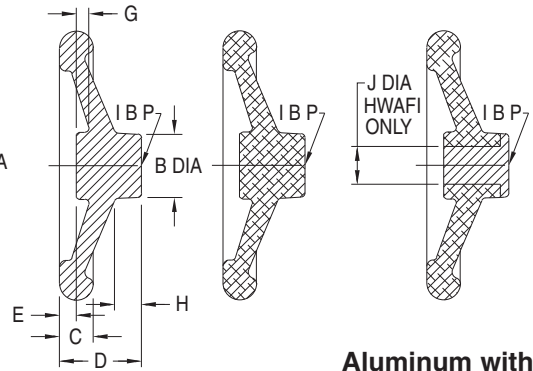
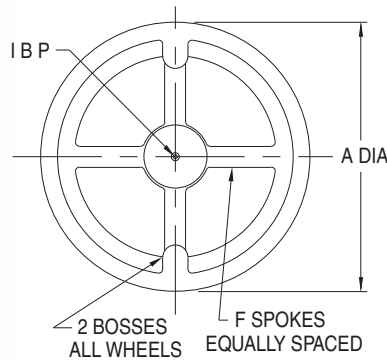
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 St. Louis, Missouri 63119-7970 USA  
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 Web Site: www.carrlane.com

# HAND WHEELS

CAST IRON PER ASTM-A48 CLASS 30 OR 319 ALUMINUM ALLOY



**Angled-Spoke  
Rounded Design  
Cast Iron or Aluminum**



**Cast Iron  
HWAF**

**Aluminum  
HWAFA**

**Aluminum with  
Cast Iron Insert  
HWAFI**

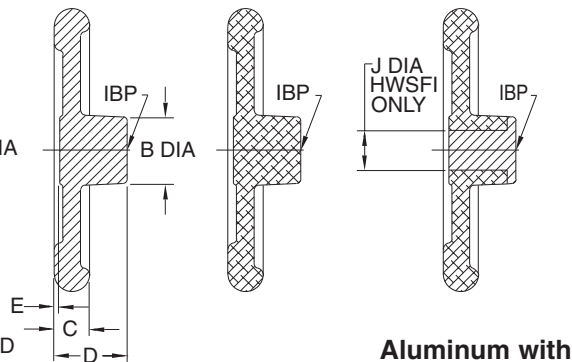
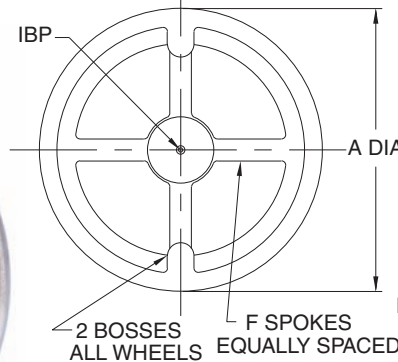
Utility-grade Hand Wheels that can be easily customized for any application. See page 79 for factory modifications available. Wide range of sizes from 4 to 14 inches in diameter. Choose from three material types: cast iron, for maximum strength; aluminum, for light weight; or aluminum with a cast iron hub insert, to combine both benefits.

## ANGLED SPOKES

PART NO. CAST IRON	PART NO. ALUMINUM	PART NO. ALUMINUM W/ INSERT	A DIA	B DIA	C	D	E	F	G	H	J DIA	HANDLE		
												SIZE	SOLID	REVOLVING
CL-4-HWAF	CL-4-HWAFA	CL-4-HWAFI	4	1-1/4	5/8	1-11/16	1/8	4	9/32	3/4	11/16	SIZE 2	SEE PAGE 92	SEE PAGES 93-95
CL-5-HWAF	CL-5-HWAFA	CL-5-HWAFI	5	1-1/2	3/4	1-7/8	3/8		5/16	13/16	1			
CL-6-HWAF	CL-6-HWAFA	CL-6-HWAFI	6	1-5/8		1	2	13/32	3/8		1-1/16	1		
CL-8-HWAF	CL-8-HWAFA	CL-8-HWAFI	8	1-7/8	3		2-7/16	1/2		7/16		1-1/16		
CL-10-HWAF	CL-10-HWAFA	CL-10-HWAFI	10	2-1/4		14	3-1/32	11/16	8		1-3/4			
CL-12-HWAF	CL-12-HWAFA	CL-12-HWAFI	12	3	1		4-3/32	1-1/16		9/16		2-3/16	2-1/2	
CL-14-HWAF	CL-14-HWAFA	CL-14-HWAFI	14					5-1/8	1-7/32					



**Straight-Spoke  
Rounded Design  
Cast Iron or Aluminum**



**Cast Iron  
HWSF**

**Aluminum  
HWSFA**

**Aluminum with  
Cast Iron Insert  
HWSFI**

Same as the Hand Wheels shown above, except with straight spokes for a flatter profile.

## STRAIGHT SPOKES

PART NO. CAST IRON	PART NO. ALUMINUM	PART NO. ALUMINUM W/ INSERT	A DIA	B DIA	C	D	E	F	J DIA	HANDLE		
										SIZE	SOLID	REVOLVING
CL-4-HWSF	CL-4-HWSFA	CL-4-HWSFI	4	1-1/4	5/8	1-11/16	1/8	4	11/16	SIZE 2	SEE PAGE 92	SEE PAGES 93-95
CL-5-HWSF	CL-5-HWSFA	CL-5-HWSFI	5	1-1/2	3/4	1-13/16	5/32		1			
CL-6-HWSF	CL-6-HWSFA	CL-6-HWSFI	6	1-5/8		1		2-1/16		1-3/4		
CL-8-HWSF	CL-8-HWSFA	CL-8-HWSFI	8	1-7/8	3		2-1/2	8	2-1/2			
CL-10-HWSF	CL-10-HWSFA	CL-10-HWSFI	10	2-1/4		14	3-1/4			3/32		
CL-12-HWSF	CL-12-HWSFA	CL-12-HWSFI	12	3	1		3-3/4					
CL-14-HWSF	CL-14-HWSFA	CL-14-HWSFI	14									



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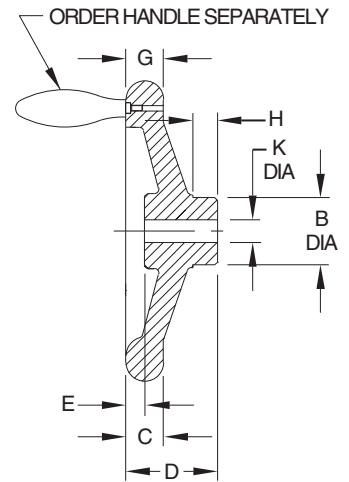
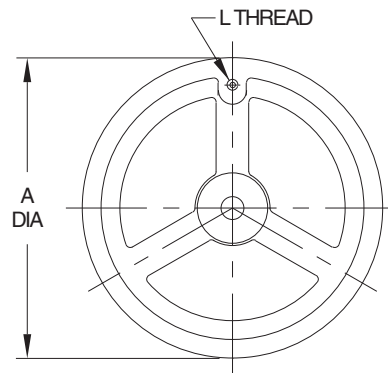
# HAND WHEELS

CAST IRON, CHROME PLATED

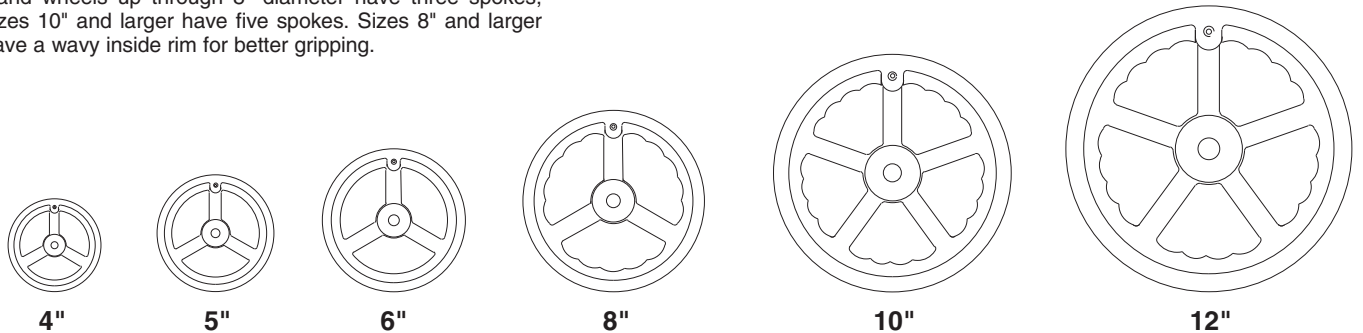


**Angled-Spoke Rounded Design  
Cast Iron  
Chrome Plated with Polished Rim**

High-quality, modern-design Hand Wheel. Beautiful chrome-plated finish with a polished rim. Hand Wheel is bored to the standard shaft diameter for its size, and is also tapped for a standard Solid or Revolving Handle. Order handle separately...see table below for matching rounded-design handle (stainless steel), or pages 86-89 for additional styles. To use without a handle, see table below to order a matching Handle Plug, for the tapped hole (chrome-plated steel).



Hand wheels up through 8" diameter have three spokes; sizes 10" and larger have five spokes. Sizes 8" and larger have a wavy inside rim for better gripping.



**ORDER HAND WHEEL AND SOLID/REVOLVING HANDLE SEPARATELY**

PART NO. WITH TAPPED HOLE FOR HANDLE	A DIA	B DIA	C	D	E	H	K DIA	L	MATCHING HANDLE			HANDLE PLUG
									SIZE	SOLID	REVOLVING	
CL-40-HWAR	4	1-1/8	9/16	1-1/2	7/16	1/2	3/8	1/4-20	SIZE 2	CL-250-SH-S	CL-250-RH-S	CL-2-HW-PLUG
CL-50-HWAR	5	1-1/4	19/32	1-5/8					SIZE 3	CL-350-SH-S	CL-350-RH-S	
CL-60-HWAR	6	1-3/8	21/32	1-13/16	9/16	9/16	1/2	5/16-18	SIZE 4	CL-450-SH-S	CL-450-RH-S	CL-4-HW-PLUG
CL-80-HWAR	8	1-21/32	7/8	2-3/16	11/16	5/8	5/8	3/8-16	SIZE 5	CL-550-SH-S	CL-550-RH-S	
CL-100-HWAR	10	1-7/8	15/16	2-3/8	23/32	3/4	3/4	1/2-13				
CL-120-HWAR	12	2-5/32	1	2-1/2	23/32	7/8	3/4					



**MANUFACTURING CO.**

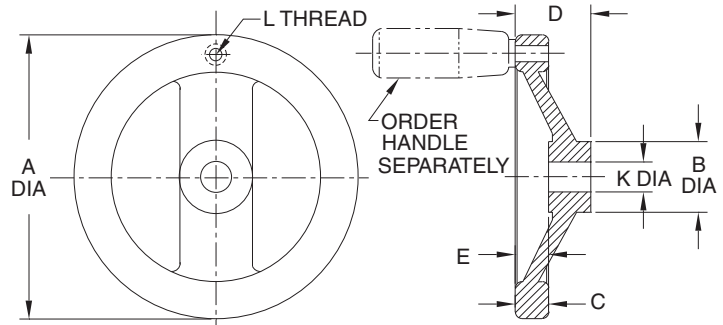
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# HAND WHEELS

ALUMINUM, GRAVITY DIE CAST



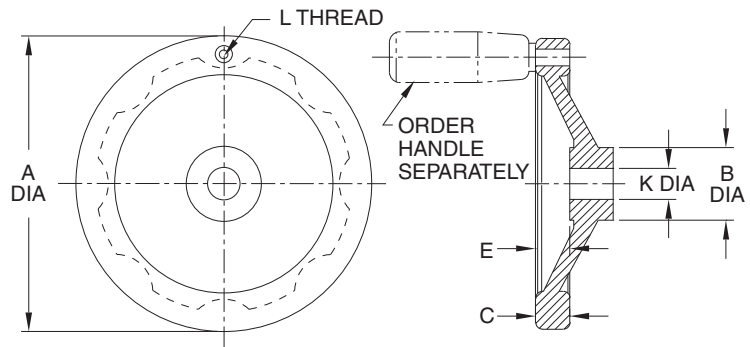
High-quality, modern-design aluminum Hand Wheel with two spokes. Rim is machined and highly polished on all sides. Spokes are shot blasted to a satin finish. These Hand Wheels are bored to the standard shaft diameter for their size, and are tapped for a Solid or Revolving Handle (also available without tapped hole for handle). Rim is concentric and square to the bore. Order Solid or Revolving Handle separately. Matching square-design stainless steel handles are recommended.



## TWO-SPOKE SQUARE DESIGN — ALUMINUM

PART NO. WITH TAPPED HOLE FOR HANDLE	PART NO. WITHOUT TAPPED HOLE FOR HANDLE	A DIA	B DIA	C	D	E	K DIA	L	HANDLE		
									SIZE	SOLID	REVOLVING
CL-50-HWTS-A	CL-5-HWTS-A	4.92	1.22	.59	1.30	.59	.375	1/4-20	SIZE 2		
CL-60-HWTS-A	CL-6-HWTS-A	6.30	1.42	.71	1.54	.75	.500	5/16-18	SIZE 3	SEE PAGE 92	SEE PAGES 93-95
CL-80-HWTS-A	CL-8-HWTS-A	7.87	1.65	.81	1.77	.83	.625	3/8-16	SIZE 4		
CL-100-HWTS-A	CL-10-HWTS-A	9.84	1.89	.91	2.01	.91					

High-quality, modern-design aluminum Hand Wheel. Rim is machined and highly polished on all sides. Solid inner dish is shot-blasted to a satin finish. These Hand Wheels are bored to the standard shaft diameter for their size, and are tapped for a Solid or Revolving Handle (also available without tapped hole for handle). Rim is concentric and square to the bore. Order Solid or Revolving Handle separately. Matching square-design stainless steel handles are recommended.



## SOLID SQUARE DESIGN — ALUMINUM

PART NO. WITH TAPPED HOLE FOR HANDLE	PART NO. WITHOUT TAPPED HOLE FOR HANDLE	A DIA	B DIA	C	D	E	K DIA	L	HANDLE		
									SIZE	SOLID	REVOLVING
CL-40-HWSS-A	CL-4-HWSS-A	3.94	1.10	.55	1.18	.51	.375	1/4-20	SIZE 2		
CL-50-HWSS-A	CL-5-HWSS-A	4.92	1.22	.59	1.30	.59					
CL-60-HWSS-A	CL-6-HWSS-A	6.30	1.42	.71	1.54	.75	.500	5/16-18	SIZE 3	SEE PAGE 92	SEE PAGES 93-95
CL-80-HWSS-A	CL-8-HWSS-A	7.87	1.65	.81	1.77	.83	.625	3/8-16	SIZE 4		
CL-100-HWSS-A	CL-10-HWSS-A	9.84	1.89	.91	2.01	.91					

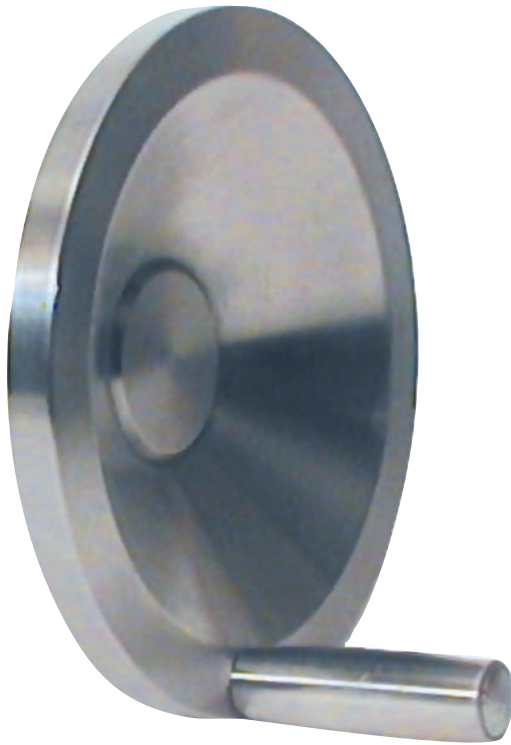


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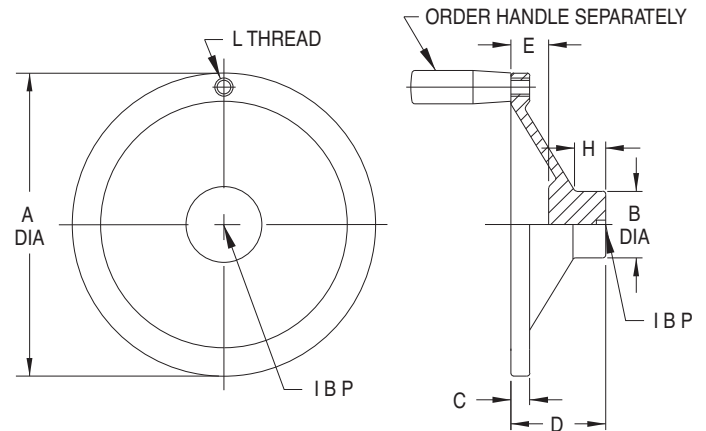
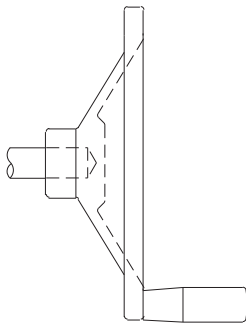
# HAND WHEELS

300-SERIES STAINLESS STEEL



**Solid Square Design  
Stainless Steel**

High-quality, stainless steel Hand Wheel. Modern square design, completely machined to a fine finish from solid 300-series stainless steel. This precision Hand Wheel is extremely strong, yet lightweight. Stainless steel Hand Wheels are center drilled, and also tapped for a standard Solid or Revolving Handle. Order handle separately...see table below for matching square-design handle (stainless steel), or pages 92-95 for additional styles.



These Hand Wheels can be bored with a blind hole to hide the shaft, for an extremely attractive finished appearance.

## ORDER HAND WHEEL AND SOLID/REVOLVING HANDLE SEPARATELY

PART NO. WITH TAPPED HOLE FOR HANDLE	A DIA	B DIA	C	D	E	H	L	MATCHING HANDLE		
								SIZE	SOLID	REVOLVING
CL-30-HWSS-S	3	.87	1/4	1.10	.43	3/8	1/4-20	SIZE 1	CL-100-SH-S	CL-100-RH-S
CL-40-HWSS-S	4	1.02	5/16	1.25	.54	7/16		SIZE 2	CL-200-SH-S	CL-200-RH-S
CL-60-HWSS-S	6	1.50	1/2	1.50	.63	1/2	5/16-18	SIZE 3	CL-300-SH-S	CL-300-RH-S
CL-80-HWSS-S	8	1.80	9/16	1.80	.85	5/8		SIZE 4	CL-400-SH-S	CL-400-RH-S
CL-100-HWSS-S	10	2	5/8	2	.95	3/4	3/8-16			



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# HAND WHEELS

BODY: BLACK FIBER-REINFORCED NYLON THERMOPLASTIC  
 HUB: MILD STEEL, ZINC PLATED CLEAR CHROMATE

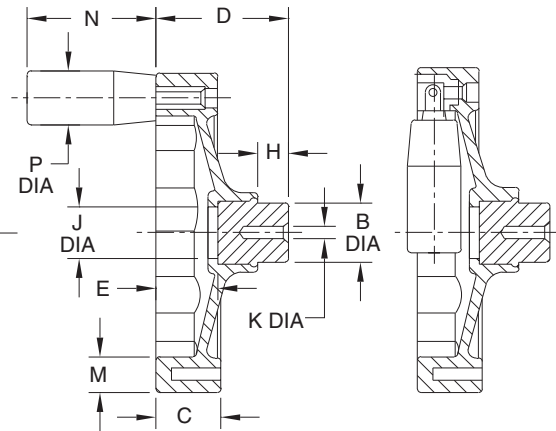
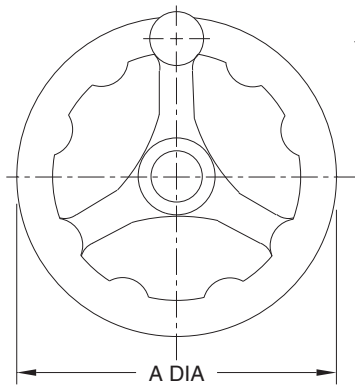


**Angled-Spoke Square Design  
 Thermoplastic  
 with Revolving Handle**



**Angled-Spoke Square Design  
 Thermoplastic  
 with Foldable Revolving Handle**

High-quality, modern-design thermoplastic Hand Wheel with three spokes. Molded-in steel hub, blank with a pilot hole. Available with either a Revolving Handle, a Foldable Revolving Handle, or a plain rim without a handle. Matte black fiber-reinforced nylon thermoplastic (textured surface for secure gripping, excellent impact resistance, operating temperatures to 230°F).



PART NO. WITH REVOLVING HANDLE	PART NO. WITH FOLDABLE REVOLVING HANDLE	PART NO. WITHOUT HANDLE (NOT TAPPED)	A DIA	B DIA	C	D	E	H	J DIA	K DIA	M	N	P DIA
CL-41-HWAS-P	CL-42-HWAS-P	CL-4-HWAS-P	3.94	.94	.79	1.69	.75	.47	.71	.157	.59	1.97	.83
CL-51-HWAS-P	CL-52-HWAS-P	CL-5-HWAS-P	4.92		.94	2.01	.91		.79	.236	.67		
CL-61-HWAS-P	CL-62-HWAS-P	CL-6-HWAS-P	6.30	1.26	1.10	2.40	1.18	.59	1.18	.236	.79	2.76	.91
CL-81-HWAS-P	CL-82-HWAS-P	CL-8-HWAS-P	7.87	1.57	1.26	2.87	1.30		1.38	.91	3.54		



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# HAND WHEELS

BODY: MATTE BLACK HIGH-IMPACT THERMOPLASTIC  
 HUB: MILD STEEL, BLACK OXIDE FINISH  
 CENTER TRIM COVER: ALUMINUM, ANODIZED



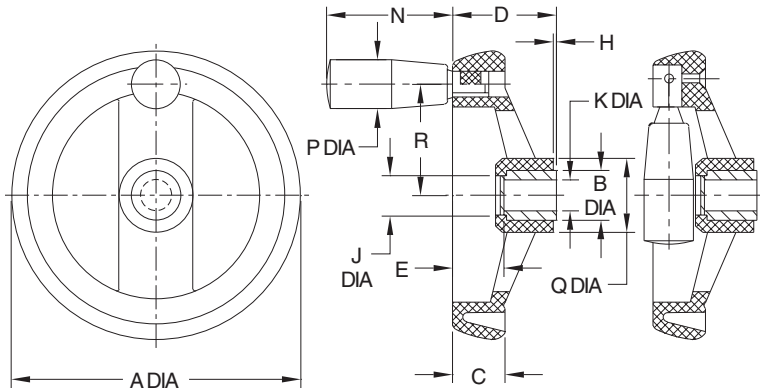
**Two-Spoke Rounded Design  
 Thermoplastic  
 with Revolving Handle**



**Two-Spoke Rounded Design  
 Thermoplastic  
 with Foldable Revolving Handle**

**ELESA  
 ORIGINAL  
 DESIGN**

High-quality, modern-design thermoplastic Hand Wheel with two spokes. Molded-in steel hub. These Hand Wheels are bored to the standard shaft diameter for their size. Available with either a Revolving Handle, a Foldable Revolving Handle, or a plain rim without a handle. Matte black high-impact thermoplastic (textured surface for secure gripping, excellent impact resistance, operating temperatures to 230°F).



PART NO. WITH REVOLVING HANDLE	PART NO. WITH FOLDABLE REVOLVING HANDLE	PART NO. WITHOUT HANDLE (NOT TAPPED)	A DIA	B HUB DIA	C	D	E	H	J DIA	K BORE DIA	N	P DIA	Q DIA	R
CL-41-HWTR-P	CL-42-HWTR-P	CL-4-HWTR-P	3.90	.71	.79	1.46	.79	.01	.67	.375	1.97	.83	.98	1.45
CL-51-HWTR-P	CL-52-HWTR-P	CL-5-HWTR-P	4.88	.87	.87	1.73	.87		.83	.375	2.56	.91	1.22	1.83
CL-61-HWTR-P	CL-62-HWTR-P	CL-6-HWTR-P	6.30	1.02	.98	2.01	.94		.98	.500			1.57	2.56
CL-81-HWTR-P	CL-82-HWTR-P	CL-8-HWTR-P	7.87	1.18	1.10	2.40	1.06		1.22	.625	3.15	1.02	1.97	3.30



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# HAND WHEELS

BODY: MATTE BLACK FIBER-REINFORCED NYLON THERMOPLASTIC  
 HUB: MILD STEEL, ZINC PLATED CLEAR CHROMATE

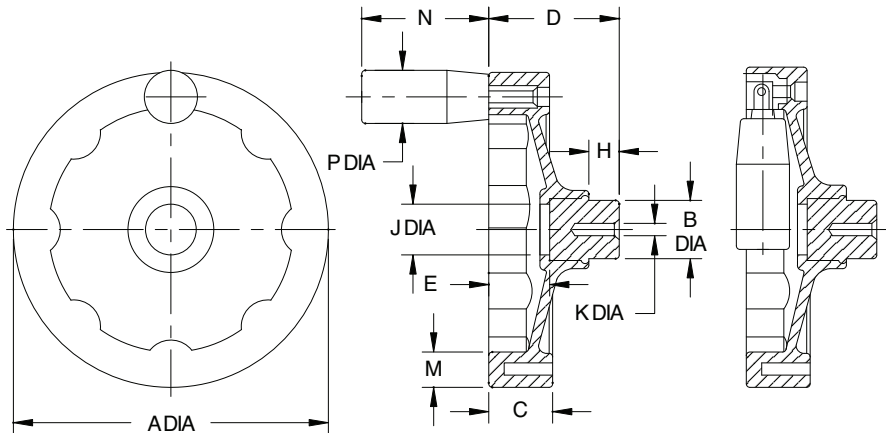


**Solid Square Design  
 Thermoplastic  
 with Revolving Handle**



**Solid Square Design  
 Thermoplastic  
 with Foldable Revolving Handle**

High-quality, modern-design thermoplastic Hand Wheel with two spokes. Molded-in steel hub. These Hand Wheels are bored to the standard shaft diameter for their size. Available with either a Revolving Handle, a Foldable Revolving Handle, or a plain rim without a handle. Matte black high-impact thermoplastic (textured surface for secure gripping, excellent impact resistance, operating temperatures to 230°F).



PART NO. WITH REVOLVING HANDLE	PART NO. WITH FOLDABLE REVOLVING HANDLE	PART NO. WITHOUT HANDLE (NOT TAPPED)	A DIA	B DIA	C	D	E	H	J DIA	K DIA	M	N	P DIA
CL-41-HWSS-P	CL-42-HWSS-P	CL-4-HWSS-P	3.94	.94	.79	1.81	.87	.47	.71	.157	.59	1.97	.83
CL-51-HWSS-P	CL-52-HWSS-P	CL-5-HWSS-P	4.92		.94	2.01	.91		.79	.236	.67		
CL-61-HWSS-P	CL-62-HWSS-P	CL-6-HWSS-P	6.30	1.26	1.10	2.40	1.18	.59	1.18	.236	.79	2.76	.91
CL-81-HWSS-P	CL-82-HWSS-P	CL-8-HWSS-P	7.87	1.57	1.26	2.91	1.34		1.38		.94		



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# HAND WHEELS

BODY: MATTE BLACK HIGH-IMPACT THERMOPLASTIC  
 HUB: MILD STEEL, BLACK OXIDE FINISH  
 CENTER TRIM COVER: GRAY THERMOPLASTIC, PUSH FIT



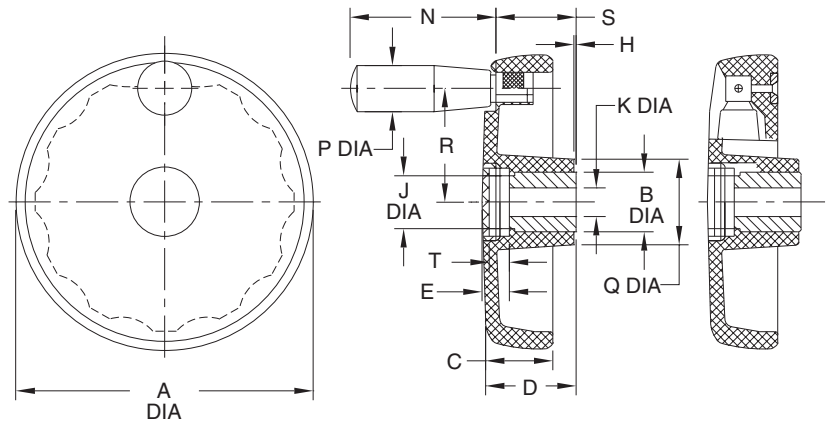
**Solid Disk Design  
 Thermoplastic  
 with Revolving Handle**



**Solid Disk Design  
 Thermoplastic  
 with Foldable Revolving Handle**

**ELESA  
 ORIGINAL  
 DESIGN**

High-quality, modern-design, solid-disk thermoplastic Hand Wheel. Molded-in steel hub. These Hand Wheels are bored to the standard shaft diameter for their size. Available with either a Revolving Handle, a Foldable Revolving Handle, or a plain rim without a handle. Matte black high-impact thermoplastic (textured surface for secure gripping, excellent impact resistance, operating temperatures to 230°F).



PART NO. WITH REVOLVING HANDLE	PART NO. WITH FOLDABLE REVOLVING HANDLE	A DIA	B HUB DIA	C	D	E	H	J DIA	K BORE DIA	N	P DIA	Q DIA	R	S	T
CL-41-HWSD-P	CL-42-HWSD-P	4.02	.87	.94	1.34	.47	.01	.79	.375	1.97	.83	1.18	1.53	1.18	.35
CL-51-HWSD-P	CL-52-HWSD-P	4.92	1.02	1.10	1.54	.47		.94	.375	2.20	.87	1.38	1.93	1.38	.31
CL-61-HWSD-P	CL-62-HWSD-P	5.91		1.26	1.73	.55		.500	2.56	.91	1.50	2.28	1.57	.39	
CL-81-HWSD-P	CL-82-HWSD-P	7.87	1.57	1.54	2.09	.67		1.50	.625	3.54	1.10	1.97	3.19	1.89	.51



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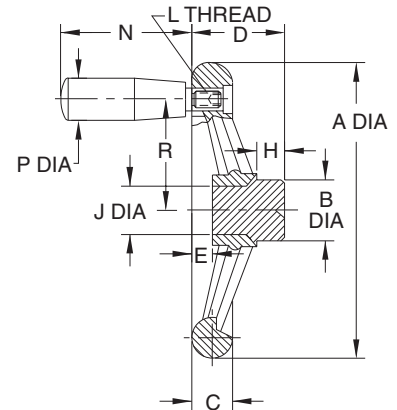
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# HAND WHEELS

BODY: BLACK PHENOLIC PLASTIC  
 HUB (ANGLED SPOKE): MILD STEEL, BLACK OXIDE FINISH  
 HUB (SOLID): MILD STEEL, ZINC PLATED CLEAR CHROMATE



High-quality, modern-design phenolic Hand Wheel with three spokes. Molded-in steel hub, blank without a pilot hole. Available with either a Revolving Handle or a plain rim without a handle. Black phenolic plastic (glossy smooth finish, extremely hard, electrical insulator, operating temperatures to 300°F, resistant to oils and most common chemicals).



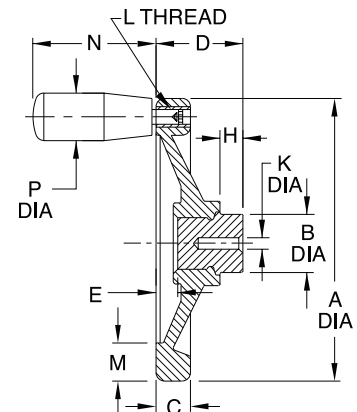
**ELESA ORIGINAL DESIGN**

## ANGLED-SPOKE ROUNDED DESIGN — PHENOLIC

PART NO. WITH REVOLVING HANDLE	PART NO. WITHOUT HANDLE (NOT TAPPED)	A DIA	B DIA	C	D	E	H	J DIA	L	N	P DIA
CL-41-HWAR-F	CL-4-HWAR-F	3.86	.94	.55	1.57	.16	.47	.79	M6	1.57	.71
CL-51-HWAR-F	CL-5-HWAR-F	4.88		.71	1.38	.35		M8	1.97	.83	
CL-61-HWAR-F	CL-6-HWAR-F	6.18	1.26	.87	1.57	.47	.59	.94	M8	2.56	.91
CL-81-HWAR-F	CL-8-HWAR-F	7.80	1.57	.94	2.20	.51		1.22	M10	3.15	1.02



High-quality, modern-design phenolic Hand Wheel. Molded-in steel hub, blank with a pilot hole. Available with either a Revolving Handle or a plain rim without a handle. Black phenolic plastic (glossy smooth finish, extremely hard, electrical insulator, operating temperatures to 300°F, resistant to oils and most common chemicals).



## SOLID SQUARE DESIGN — PHENOLIC

PART NO. WITH REVOLVING HANDLE	PART NO. WITHOUT HANDLE (NOT TAPPED)	A DIA	B DIA	C	D	E	H	K DIA	L	M	N	P DIA
CL-31-HWSS-F	CL-3-HWSS-F	3.15	.79	.55	1.22	.16	.39	.157	M6	.59	1.57	.71
CL-41-HWSS-F	CL-4-HWSS-F	3.94	.94		1.38	.24	.43		M8	.63	1.97	.83
CL-51-HWSS-F	CL-5-HWSS-F	4.92	1.26	.63	1.73	.35	.51	.236	M8	.71	2.17	.91
CL-61-HWSS-F	CL-6-HWSS-F	5.91	1.26	.71	1.89	.43	.51		M10	.79	.94	2.56
CL-81-HWSS-F	CL-8-HWSS-F	7.87	1.57	.83	2.28	.55	.63					



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# FLUTED HAND WHEELS

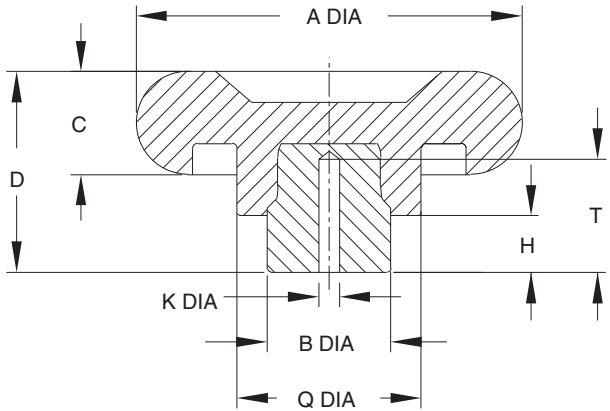
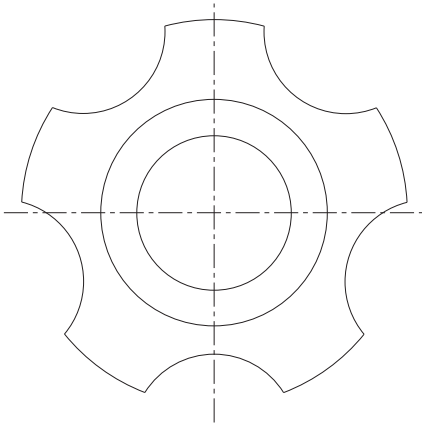
BODY: BLACK PHENOLIC PLASTIC  
 HUB: MILD STEEL, ZINC PLATED CLEAR CHROMATE



CL-4-FHW



CL-3-FHW



Small five-lobed phenolic hand wheels that are useful as control knobs or clamping knobs. Available in two diameters. Molded-in steel hub, blank with a pilot hole. Black phenolic plastic (glossy smooth finish, extremely hard, electrical insulator, operating temperatures to 300°F, resistant to oils and most common chemicals). Note: catalog photos are actual size.

PART NO.	A DIA	B DIA	C	D	H	K DIA	Q DIA	T
CL-3-FHW	2.95	.94	.79	1.54	.43	.157	1.34	.87
CL-4-FHW	3.54	1.26		1.65	.47	.236	1.73	.98



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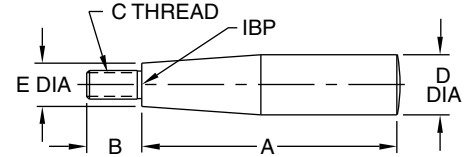
# SOLID HANDLES

STEEL: 12L14, BLACK OXIDE FINISH. STAINLESS STEEL: 300 SERIES.

**NOW ALSO AVAILABLE IN METRIC!**



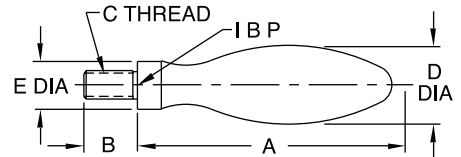
**Square Design Threaded Stainless Steel**



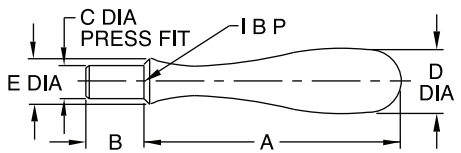
**NOW ALSO AVAILABLE IN METRIC!**



**Rounded Design Threaded Stainless Steel**



**Rounded Design Press Fit Steel, Black Oxide Finish**



## SQUARE DESIGN, THREADED — STAINLESS (USA)

PART NO.	SIZE	A	B	C	D DIA	E DIA
CL-100-SH-S	1	1-1/2	9/32	1/4-20	1/2	13/32
CL-200-SH-S	2	2	7/16			
CL-300-SH-S	3	2-1/2	9/16	5/16-18	5/8	15/32
CL-400-SH-S	4	3-1/4	11/16	3/8-16	3/4	19/32

## ROUNDED DESIGN, THREADED — STAINLESS (USA)

CL-250-SH-S	2	2	1/2	1/4-20	5/8	.44
CL-350-SH-S	3	2-5/8	9/16	5/16-18	13/16	.53
CL-450-SH-S	4	3-3/16	11/16	3/8-16	1	.63
CL-550-SH-S	5	3-3/4	13/16	1/2-13	1-1/4	.75

## ROUNDED DESIGN, PRESS FIT — STEEL (USA)

CL-1-SH	2	2	9/16	3/8	11/16	5/8
CL-2-SH	4	3-1/4	3/4	7/16	1	11/16
CL-3-SH	5	3-7/8	1	1/2	1-3/16	7/8

Attractive fixed handles available in steel with a black oxide finish, or stainless steel with a polished finish. Available in square or rounded designs, each in several sizes. Choice of threaded type or press-fit type (do not use press-fit handles on aluminum hand wheels).

## SQUARE DESIGN, THREADED — STAINLESS (METRIC)

PART NO.	SIZE	A	B	C	D DIA	E DIA
CLM-100-SH-S	1	1-1/2	9/32	M6	1/2	13/32
CLM-200-SH-S	2	2	7/16			
CLM-300-SH-S	3	2-1/2	9/16	M8	5/8	15/32
CLM-400-SH-S	4	3-1/4	11/16	M10	3/4	19/32

## ROUNDED DESIGN, THREADED — STAINLESS (METRIC)

CLM-250-SH-S	2	2	1/2	M6	5/8	.44
CLM-350-SH-S	3	2-5/8	9/16	M8	13/16	.53
CLM-450-SH-S	4	3-3/16	11/16	M10	1	.63
CLM-550-SH-S	5	3-3/4	13/16	M12	1-1/4	.75

# FINGER PINS

12L14 STEEL, BLACK OXIDE FINISH

## USA

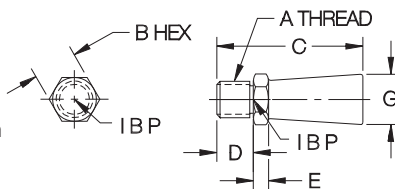
PART NO.	A	B	C	D	E	G DIA
CL-0-FP	#10-32	1/4	3/4	1/4	7/64	1/4
CL-1-FP	#10-24					
CL-2-FP	5/16-18	3/8	1-1/4	5/16	5/32	3/8

## METRIC

CLM-5-FP	M5	6mm	.75	.24	.12	.24
CLM-8-FP	M8	10mm	1.26	.31	.16	.39



Miniature, fixed finger handle in steel, with a black oxide finish.



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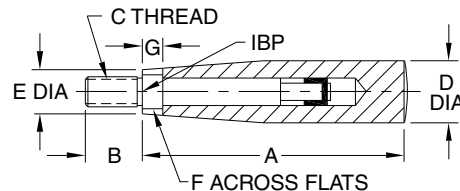
# REVOLVING HANDLES

STEEL: 12L14, BLACK OXIDE FINISH. STAINLESS STEEL: 300 SERIES

**NOW ALSO AVAILABLE IN METRIC!**



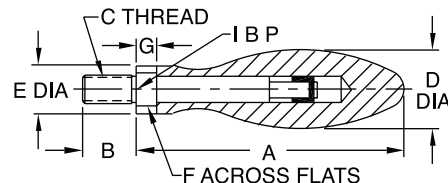
**Square Design Threaded Stainless Steel**



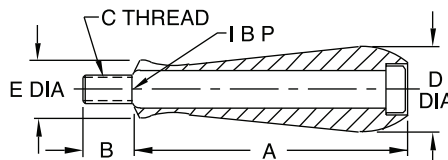
**NOW ALSO AVAILABLE IN METRIC!**



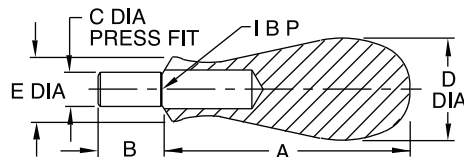
**Rounded Design Threaded Stainless Steel**



**Rounded Design Shoulder Screw Steel, Black Oxide Finish**



**Rounded Design Press Fit Steel, Black Oxide Finish**



Revolving Handles have an internal bearing that allows the handle to remain fixed in your hand, for firm gripping, while turning a hand wheel or crank. These attractive handles are available in steel with a black oxide finish, or stainless steel with a polished finish. Available in square or rounded designs, each in several sizes. Choice of threaded type or press-fit type (do not use press-fit handles on aluminum hand wheels).

**SQUARE DESIGN, THREADED — STAINLESS (USA)**

PART NO.	SIZE	A	B	C	D DIA	E DIA	F	G
CL-100-RH-S	1	1-1/2	9/32	1/4-20	5/8	15/32	5/16	.20
CL-200-RH-S	2	2	1/2			7/16		.25
CL-300-RH-S	3	2-1/2	9/16	5/16-18	3/4	17/32	3/8	.28
CL-400-RH-S	4	3-1/4	5/8	3/8-16	7/8	5/8	7/16	.32

**ROUNDED DESIGN, THREADED — STAINLESS (USA)**

PART NO.	SIZE	A	B	C	D DIA	E DIA	F	G
CL-250-RH-S	2	2-1/4	1/2	1/4-20	5/8	.44	5/16	.25
CL-350-RH-S	3	2-13/16	9/16	5/16-18	13/16	.53	3/8	.28
CL-450-RH-S	4	3-3/8	5/8	3/8-16	1	.63	7/16	.32
CL-550-RH-S	5	4	3/4	1/2-13	1-1/4	.75	5/8	.39

**ROUNDED DESIGN, SHOULDER SCREW — STEEL (USA)**

PART NO.	SIZE	A	B	C	D DIA	E DIA	F	G
CL-1-RH	2	2	7/16	1/4-20	13/16	3/4	—	—
CL-2-RH	4	3-1/4	9/16	3/8-16	1-1/4	15/16	—	—
CL-3-RH	5	3-7/8	3/4	1/2-13	1-1/2	1-1/8	—	—

**ROUNDED DESIGN, PRESS FIT — STEEL (USA)**

PART NO.	SIZE	A	B	C	D DIA	E DIA	F	G
CL-4-RH	2	2-3/8	19/32	5/16	1	5/8	—	—

**SQUARE DESIGN, THREADED — STAINLESS (METRIC)**

PART NO.	SIZE	A	B	C	D DIA	E DIA	F	G
CLM-100-RH-S	1	1-1/2	9/32	M6	5/8	15/32	5/16	.20
CLM-200-RH-S	2	2	1/2			7/16		.25
CLM-300-RH-S	3	2-1/2	9/16	M8	3/4	17/32	3/8	.28
CLM-400-RH-S	4	3-1/4	5/8	M10	7/8	5/8	7/16	.32

**ROUNDED DESIGN, THREADED — STAINLESS (METRIC)**

PART NO.	SIZE	A	B	C	D DIA	E DIA	F	G
CLM-250-RH-S	2	2-1/4	1/2	M6	5/8	.44	5/16	.25
CLM-350-RH-S	3	2-13/16	9/16	M8	13/16	.53	3/8	.28
CLM-450-RH-S	4	3-3/8	11/16	M10	1	.63	7/16	.32
CLM-550-RH-S	5	4	13/16	M12	1-1/4	.75	5/8	.39

**ROUNDED DESIGN, SHOULDER SCREW — STEEL (METRIC)**

PART NO.	SIZE	A	B	C	D DIA	E DIA	F	G
CLM-1-RH	2	2	7/16	M6	13/16	3/4	—	—
CLM-2-RH	4	3-1/4	9/16	M10	1-1/4	15/16	—	—
CLM-3-RH	5	3-7/8	3/4	M12	1-1/2	1-1/8	—	—



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# REVOLVING HANDLES

BODY: BLACK PHENOLIC PLASTIC OR NYLON THERMOPLASTIC  
 THREADED SPINDLE: MILD STEEL, ZINC PLATED CLEAR CHROMATE

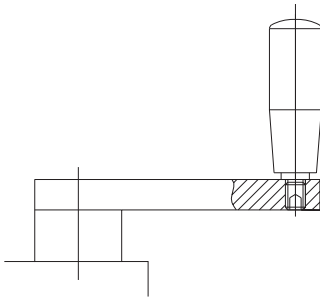


**Phenolic  
with Steel Body**

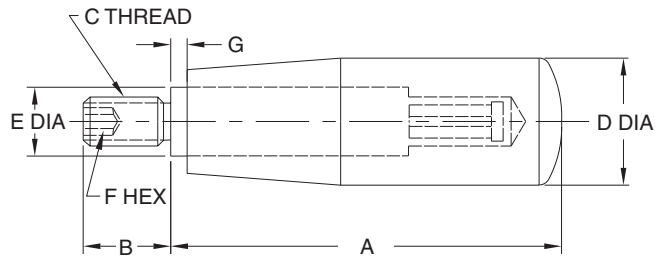


**Thermoplastic  
with Steel Body**

Modern square-design handle with a threaded steel spindle. Revolving Handles have an internal bearing that allows the handle to remain fixed in your hand, for firm gripping while turning a Hand Wheel or crank. Threaded spindle has a hex socket for easy installation. Available in two handle materials: Black phenolic plastic (glossy smooth finish, extremely hard, electrical insulator, operating temperatures to 300°F, resistant to oils and most common chemicals) or matte black nylon thermoplastic (textured surface for secure gripping, excellent impact resistance, operating temperatures to 230°F).



Revolving Handles can be used to make custom crank handles.



## USA

PART NO. PHENOLIC	PART NO. THERMOPLASTIC	SIZE	A	B	C	D DIA	E DIA	F	G
CL-100-RH-F	CL-100-RH-P	1	1.67	.47	1/4-20	.71	.39	3mm	.10
CL-200-RH-F	CL-200-RH-P	2	2.07	.51		.83			
CL-300-RH-F	CL-300-RH-P	3	2.66	.55	5/16-18	.91	4mm		
CL-400-RH-F	CL-400-RH-P	4	3.25	.63	3/8-16	1.02	5mm		
CL-500-RH-F	—	5	4.12	.79	1/2-13	1.22	6mm		

## METRIC

CLM-100-RH-F	CLM-100-RH-P	1	1.67	.47	M6	.71	.39	3mm	.10
CLM-200-RH-F	CLM-200-RH-P	2	2.07	.51	M6	.83		3mm	
CLM-201-RH-F	—				M8	4mm			
CLM-300-RH-F	CLM-300-RH-P	3	2.66	.55	M8	.91	4mm		
CLM-400-RH-F	CLM-400-RH-P	4	3.25	.63	M10	1.02	5mm		
CLM-500-RH-F	—	5	4.12	.79	M12	1.22	6mm		



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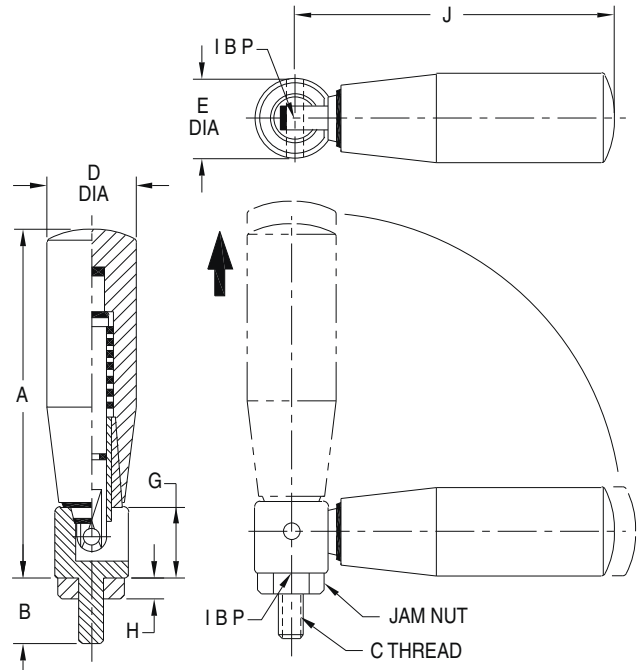
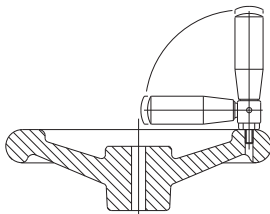
# FOLDABLE REVOLVING HANDLES

BODY: 300-SERIES STAINLESS STEEL. HANDLE: BLACK THERMOPLASTIC



## Thermoplastic with Stainless Steel Body

Unique revolving handle that can fold away when not in use. Handle is positively locked in extended position. Like other revolving handles, this foldable handle has an internal bearing that allows it to remain fixed in your hand, for firm gripping, while turning a hand wheel or crank. To allow folding, the handle must first be pulled outward, against a spring force, then moved 90°. Once folded, the handle is held in that position also by spring force.



USA

PART NO.	SIZE	A	B	C	D DIA	E DIA	G	H	J
CL-200-FRH-S	2	2-1/2	5/8	1/4-20	7/8	.63	1/2	11/64	2-3/8
CL-300-FRH-S	3	3-1/4	3/4	5/16-18	15/16	.78	5/8	13/64	3-1/8
CL-400-FRH-S	4	3-3/4	7/8	3/8-16	1	.78	5/8	15/64	3-5/8

To install handle in tapped hole, screw in as far as possible, then back off until the handle is at the desired orientation. Tight Jam Nut to secure at that orientation.

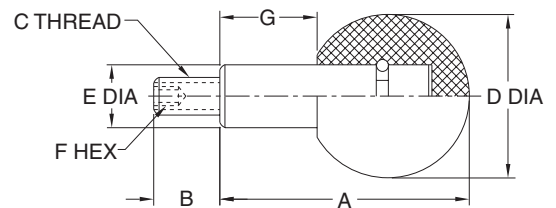
# REVOLVING BALL HANDLES

BALL KNOB: BLACK PHENOLIC PLASTIC  
 THREADED SPINDLE: MILD STEEL, BLACK OXIDE FINISH OR ZINC PLATED CLEAR CHROMATE



## Phenolic with Steel Body

Revolving handle with a ball knob made of phenolic plastic and a threaded steel spindle. This version is especially useful for hand wheels or cranks mounted horizontally with the handle used as a hand rest. Revolving Ball Handles have an internal bearing that allows the handle to remain fixed in your hand, for firm gripping. Threaded spindle has a hex socket for easy installation.



USA

PART NO.	SIZE	A	B	C	D DIA	E DIA	F	G
CL-200-RBH	2	1.48	.43	1/4-20	.98	.39	3mm	.59
CL-300-RBH	3	1.89	.51	5/16-18	1.26	.51	4mm	.75
CL-400-RBH	4	2.40	.55	3/8-16	1.57	.63	5mm	.94
CL-500-RBH	5	3.07	.83	1/2-13	1.97	.79	6mm	1.22

METRIC

CLM-200-RBH	2	1.48	.43	M6	.98	.39	3mm	.59
CLM-300-RBH	3	1.89	.51	M8	1.26	.51	4mm	.75
CLM-400-RBH	4	2.40	.55	M10	1.57	.63	5mm	.94
CLM-500-RBH	5	3.07	.83	M12	1.97	.79	6mm	1.22



## MANUFACTURING CO.

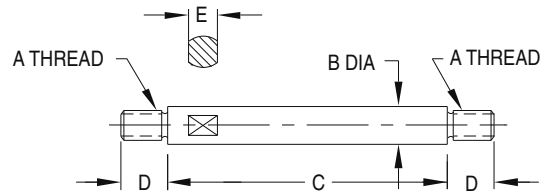
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# LEVER BARS

300-SERIES STAINLESS STEEL

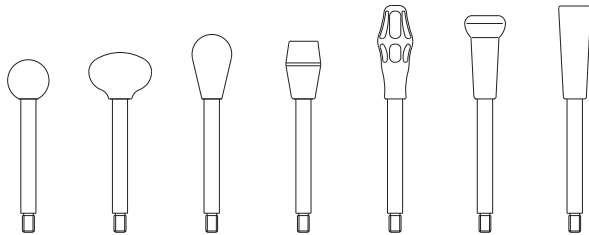


Versatile Lever Bars available in three diameters, each in several lengths. 300-series stainless steel polished to a beautiful finish. Can be used with the hubs on page 97 to make lever handles. Wrench flat allows firm tightening.



**USA**

PART NO.	A	B DIA	C	D	E
CL-515-LVB-S	5/16-18	.39	1.5	7/16	5/16
CL-522-LVB-S			2.2		
CL-530-LVB-S			3.0		
CL-540-LVB-S	3/8-16	.47	4.0	1/2	3/8
CL-555-LVB-S			5.5		
CL-620-LVB-S			2.0		
CL-627-LVB-S	1/2-13	.55	2.7	5/8	7/16
CL-637-LVB-S			3.7		
CL-647-LVB-S			4.7		
CL-660-LVB-S			6.0		
CL-837-LVB-S	1/2-13	.55	3.7	5/8	7/16
CL-847-LVB-S			4.7		
CL-857-LVB-S			5.7		
CL-867-LVB-S			6.7		



YOU DON'T STOP LAUGHING  
BECAUSE YOU GROW OLD;  
YOU GROW OLD BECAUSE  
YOU STOP LAUGHING.



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# LEVER HANDLES

300-SERIES STAINLESS STEEL

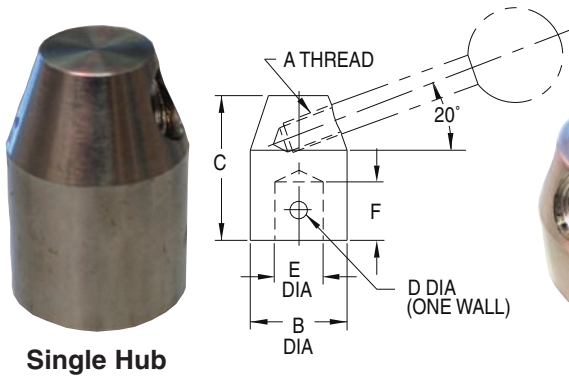


**Single  
Lever Handle**



**Triple  
Lever Handle**

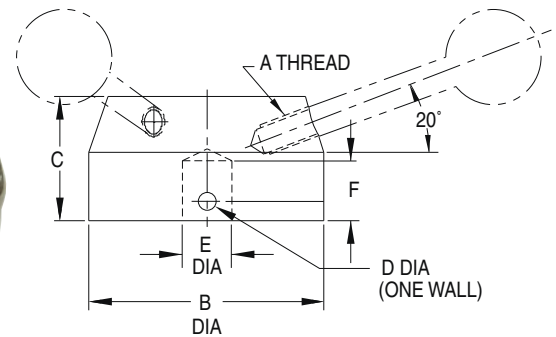
Fast, efficient levers that provide high torque. These attractive Lever Handles are made of 300-series stainless steel, polished to a beautiful finish. Hubs are available in single-handle or triple-handle versions, each in two sizes. Lever Handles can be totally customized by choosing Lever Bar length (see page 96) and Knob type (see pages 106-110).



**Single Hub**



**Triple Hub**



**SINGLE LEVER HANDLE — ORDER HUB, LEVER BAR, AND KNOB SEPARATELY (USA)**

PART NO. HUB ONLY	A	B DIA	C	D DIA	E	F	PART NO. LEVER BAR	PART NO. KNOB
CL-116-LHH-S	5/16-18	1	1-1/2	1/8	3/8 DIA REAMED	5/8	SEE PAGE 96	SEE PAGES 106-112
CL-1160-LHH-S				—	3/8-16 TAPPED	9/16		
CL-128-LHH-S	3/8-16	1-1/4	1-7/8	5/32	1/2 DIA REAMED	3/4		
CL-1280-LHH-S				—	1/2-13 TAPPED	11/16		

**TRIPLE LEVER HANDLE — ORDER HUB, LEVER BARS, AND KNOBS SEPARATELY (USA)**

CL-316-LHH-S	5/16-18	2	1	3/16	3/8 DIA REAMED	3/4	SEE PAGE 96	SEE PAGES 106-112
CL-328-LHH-S	3/8-16	2-3/8	1-3/16	3/16	1/2 DIA REAMED	7/8		



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# CRANK HANDLES

NODULAR IRON PER ASTM A536 CLASS 65-45-12, ZINC PLATED CLEAR CHROMATE



Rugged crank handle with a comfortable grip. Choice of three sizes that fit all common square drives.

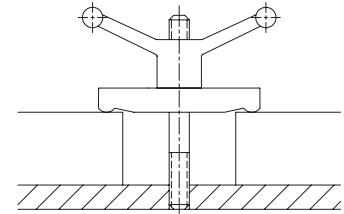
PART NO.	SQUARE DRIVE SIZE	A	B	C	D DIA	E	F	G DIA
CL-0-H	3/8 or 10mm	2-1/4	3	1	7/8	13/32	5/8	5/8
CL-1-H	1/2 or 12mm	3-3/4	4-3/16	1-5/16	1-1/16	17/32	7/8	7/8
CL-2-H	5/8 or 16mm	5-1/4	5-1/2	2-1/2	1-3/8	21/32	1-3/4	1

# SPEED BALL HANDLES

NODULAR IRON PER ASTM-A536 CLASS 65-45-12, ZINC PLATED CLEAR CHROMATE



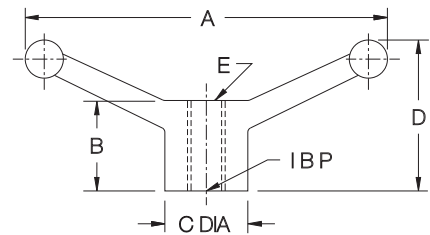
Speed handles that are weighted for quick turning. Long arm extensions provide excellent leverage for hand tightening.



Double Arm

## DOUBLE ARM (USA & METRIC)

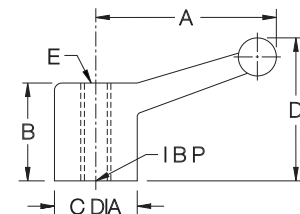
PART NO.	A	B	C DIA	D	E
CL-4-SBH	4-7/8	1-5/8	1-1/8	2-1/4	BLANK
CL-44-SBH					1/2-13
CLM-44-SBH					M12
CL-6-SBH	6	1-5/8	1-3/8	2-3/8	BLANK
CL-64-SBH					5/8-11
CLM-64-SBH					M16
CL-8-SBH	8	1-13/16	1-3/4	2-7/8	BLANK
CL-84-SBH					3/4-10
CLM-84-SBH					M20



Single Arm

## SINGLE ARM (USA & METRIC)

PART NO.	A	B	C DIA	D	E
CL-5-SBH	3	1-5/8	1-3/8	2-3/8	BLANK
CL-55-SBH					1/2-13
CL-59-SBH					5/8-11
CLM-55-SBH					M12
CLM-59-SBH	4-3/8	2	1-5/8	3-1/2	BLANK
CL-7-SBH					3/4-10
CL-75-SBH					M16
CLM-75-SBH					M20



## MANUFACTURING CO.

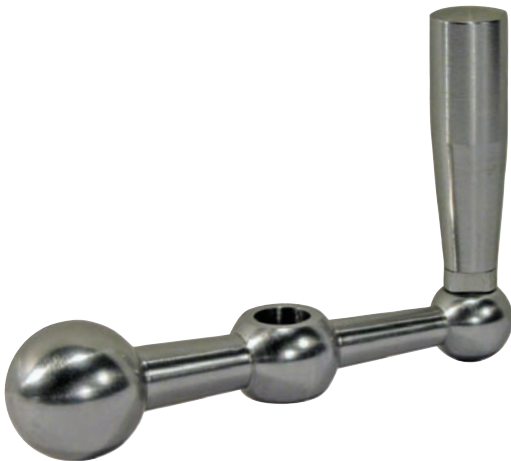
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# BALANCED CRANK HANDLES

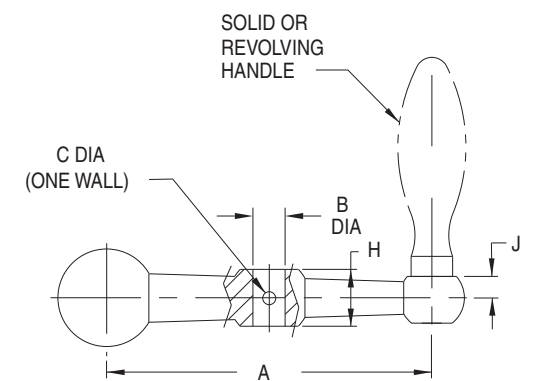
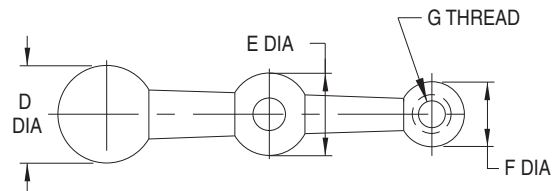
300-SERIES STAINLESS STEEL



**Rounded Handle  
(Solid or Revolving)  
Stainless Steel**



**Square Handle  
(Solid or Revolving)  
Stainless Steel**



High-quality, stainless steel crank handle with a beautiful polished finish. Handle is balanced for smooth operation, and so that no rotation occurs due to handle weight. The reamed center hole is cross-drilled in one wall for easy installation by pinning. Order body and handle separately, with a choice of four handle types:

- Rounded-design Solid Handle (p.92)
- Rounded-design Revolving Handle (p. 93)
- Square-design Solid Handle (p. 92)
- Square-design Revolving Handle (p. 93)

**ORDER BODY AND SOLID/REVOLVING HANDLE SEPARATELY**

PART NO. BODY ONLY	A	B DIA	C DIA	D DIA	E DIA	F DIA	G	H	J	PART NO. — SOLID OR REVOLVING HANDLE			
										ROUNDED SOLID	ROUNDED REVOLVING	SQUARE SOLID	SQUARE REVOLVING
CL-20-CHB-S	2-1/2	5/16	1/8	1	3/4	5/8	1/4-20	9/16	1/4	CL-250-SH-S	CL-250-RH-S	CL-200-SH-S	CL-200-RH-S
CL-30-CHB-S	3-1/8	3/8	5/32	1-1/4	1	3/4	5/16-18	11/16	5/16	CL-350-SH-S	CL-350-RH-S	CL-300-SH-S	CL-300-RH-S
CL-40-CHB-S										4			
CL-50-CHB-S	5	1/2	3/16	1-1/2	1-1/4	1	3/8-16	7/8	3/8	CL-450-SH-S	CL-450-RH-S	CL-400-SH-S	CL-400-RH-S
CL-51-CHB-S		5/8*											

\*1/8" Square keyway on this size only.



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# CRANK HANDLES

CRANK BODY & REVOLVING HANDLE: MATTE BLACK THERMOPLASTIC  
 HUB: MILD STEEL, BLACK OXIDE FINISH  
 CENTER TRIM COVER: ALUMINUM, MATTE ANODIZED  
 REVOLVING HANDLE SPINDLE: MILD STEEL, ZINC PLATED CLEAR CHROMATE

High-quality, fiber-reinforced technopolymer Crank Handle, available in five sizes. High-strength design suitable for heavy-duty applications. Matte black high-strength thermoplastic (resistant to oils, solvents, and grease, excellent impact resistance, operating temperatures to 230°F). Molded-in steel hub, blank with a pilot hole. Center trim cover is self-adhesive (apply after modifying hub). Furnished with a Revolving Handle or a Foldable Revolving Handle. Foldable handle is positively locked in extended position. To allow folding, the handle must first be pulled outward, against a spring force, then folded 90°. Once folded, the handle is held in that position also by spring force.

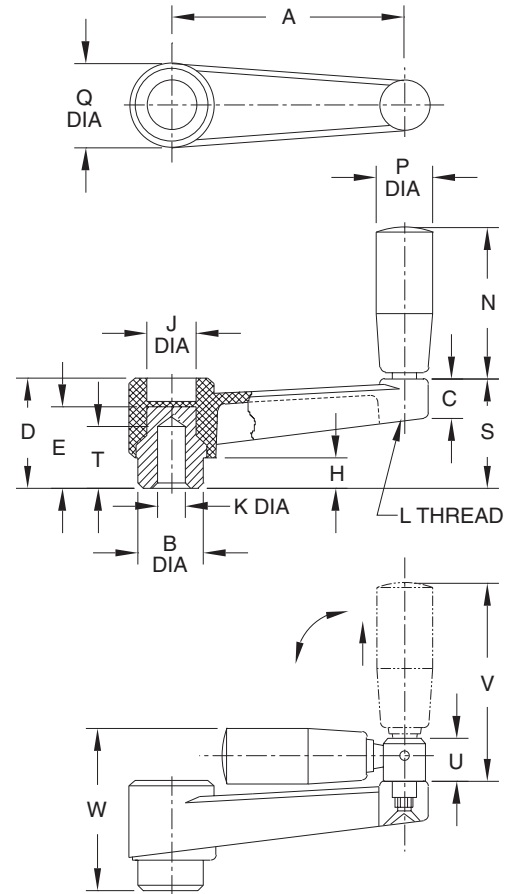


Thermoplastic with Revolving Handle



Thermoplastic with Foldable Revolving Handle

ELESA ORIGINAL DESIGN



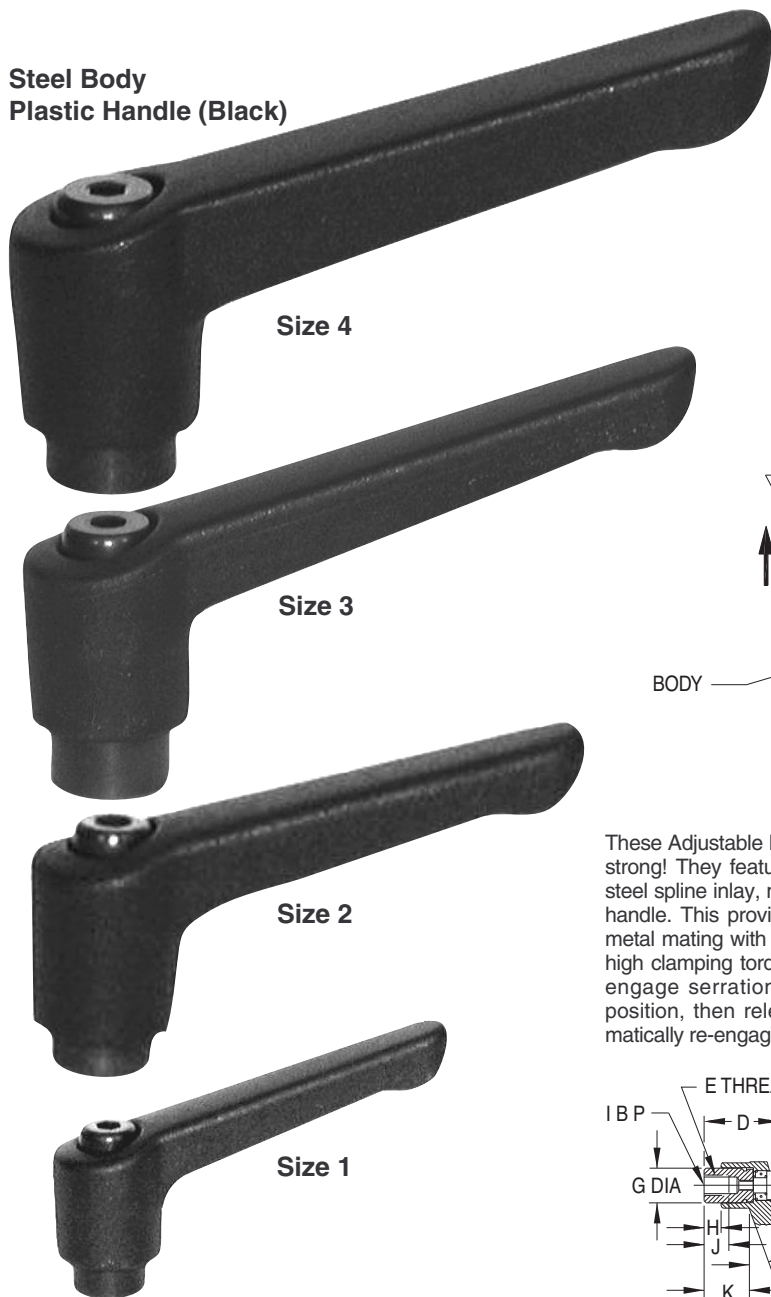
PART NO. WITH REVOLVING HANDLE	PART NO. WITH FOLDABLE REVOLVING HANDLE	A	B DIA	C	D	E	H	J DIA	K DIA	L	N	P DIA	Q DIA	S	T	U	V	W
		CL-21-CHP	—	2.52	.71	.51	1.30	1.14	.39	.63	.236	M6	1.57	.71	1.06	1.30	.71	—
CL-31-CHP	CL-32-CHP	3.15	.87	.63	1.42	1.26	.39	.67	.236	M6	1.97	.83	1.18	1.42	1.02	.59	2.95	2.20
CL-41-CHP	CL-42-CHP	3.94	.94	.63	1.57	1.46	.39	.83	.315	M8	2.56	.91	1.34	1.61	1.10	.79	3.43	2.48
CL-51-CHP	CL-52-CHP	5.12	1.10	.63	1.93	1.73	.55	.98	.394	M10	3.15	1.02	1.57	1.97	1.18	.79	3.43	2.80
CL-61-CHP	CL-62-CHP	6.30	1.34	.71	2.17	1.93	.59	1.06	.394	M10	3.54	1.10	1.77	2.20	1.18	.79	4.09	3.11



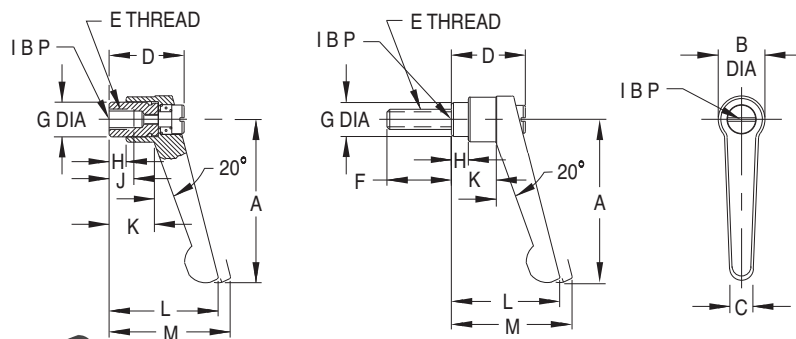
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# ADJUSTABLE HANDLES

HANDLE: FIBER-REINFORCED THERMOPLASTIC WITH STAINLESS STEEL INSERT  
 BODY, SCREW, AND SPRING: STEEL, BLACK OXIDE FINISH



These Adjustable Handles are incredibly strong! They feature a unique stainless steel spline inlay, molded into the plastic handle. This provides positive metal-to-metal mating with the serrated body, for high clamping torque. Lift handle to disengage serrations, rotate to desired position, then release handle to automatically re-engage spline.



### GENERAL DIMENSIONS

SIZE	A	B DIA	C	D	G DIA	H	K	L	M
1	1-3/4	19/32	5/16	31/32	3/8	5/32	7/16	1-3/8	1-1/2
2	2-1/2	3/4	13/32	1-7/32	17/32	1/4	13/16	1-25/32	1-15/16
3	3-1/16	7/8	17/32	1-7/16	5/8	5/16	7/8	2-5/32	2-5/16
4	3-5/8	1	9/16	1-11/16	3/4	7/16	1-3/16	2-9/16	2-23/32

Adjustable handle that can be reset to any angle. Ideal for clamping in a confined space, or when a specific handle position is desired. Available in steel (with a black plastic handle) or stainless steel (with a metallic-gray plastic handle, see page 102). Rugged spring-loaded spline mechanism. Choice of four handle sizes. Available with a tapped hole or with an integral stud. Note: Catalog photos above are actual size.



### TAPPED (USA)

PART NO. STEEL BLACK	SIZE	E	J
CL-3-AHP-1	1	#10-32	.31
CL-4-AHP-1		1/4-20	
CL-4-AHP-2	2	1/4-20	.39
CL-5-AHP-2		5/16-18	
CL-5-AHP-3	3	5/16-18	.55
CL-6-AHP-3		3/8-16	
CL-6-AHP-4	4	3/8-16	.67
CL-8-AHP-4		1/2-13	

### TAPPED (METRIC)

CLM-6-AHP-1	1	M6	.31
CLM-8-AHP-2	2	M8	.39
CLM-10-AHP-3	3	M10	.55
CLM-12-AHP-4	4	M12	.67

### STUD TYPE (USA)

PART NO. STEEL BLACK	SIZE	E	F
CL-408-AHP-1	1	1/4-20	.78
CL-416-AHP-1			1.57
CL-508-AHP-2	2	5/16-18	.78
CL-516-AHP-2			1.57
CL-525-AHP-2	3	3/8-16	2.48
CL-610-AHP-3			.98
CL-616-AHP-3	4	1/2-13	1.57
CL-625-AHP-3			2.48
CL-813-AHP-4	4	1/2-13	1.26
CL-816-AHP-4			1.57
CL-825-AHP-4			2.48

### STUD TYPE (METRIC)

CLM-620-AHP-1	1	M6	.78
CLM-640-AHP-1			1.57
CLM-820-AHP-2	2	M8	.78
CLM-840-AHP-2			1.57
CLM-1030-AHP-3	3	M10	1.26
CLM-1050-AHP-3			1.97
CLM-1230-AHP-4	4	M12	1.26
CLM-1250-AHP-4			1.97



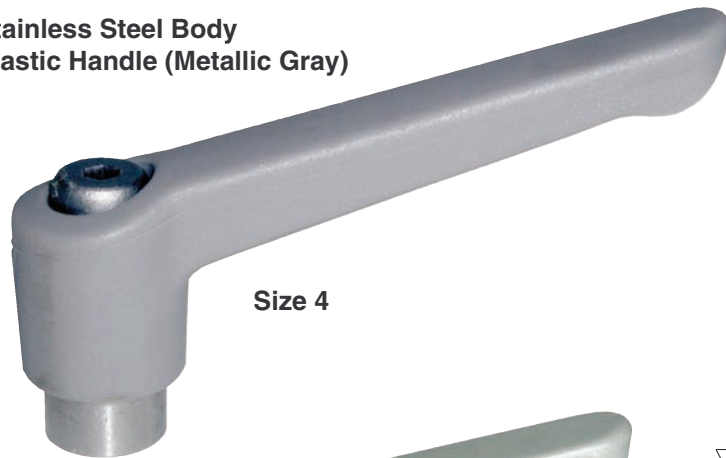
## MANUFACTURING CO.

4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

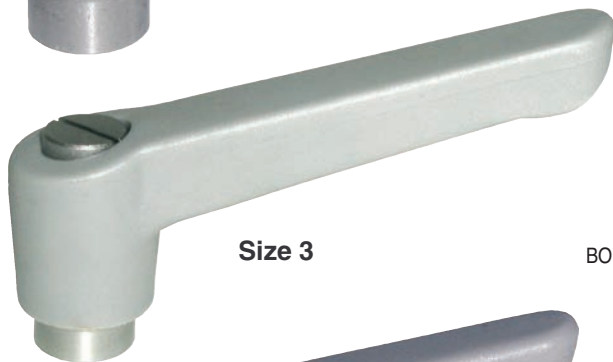
# ADJUSTABLE HANDLES

HANDLE: FIBER-REINFORCED THERMOPLASTIC WITH STAINLESS STEEL INSERT  
 BODY, SCREW, AND SPRING: 300-SERIES STAINLESS STEEL

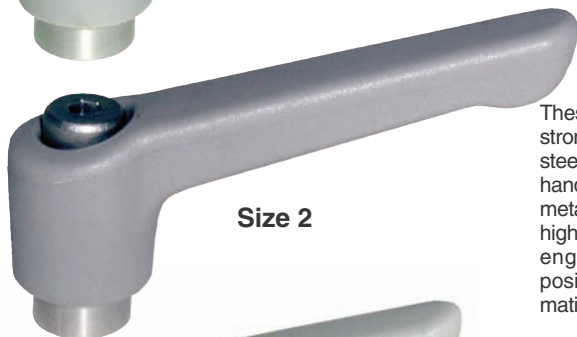
**Stainless Steel Body  
 Plastic Handle (Metallic Gray)**



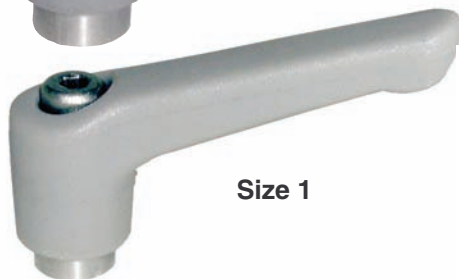
Size 4



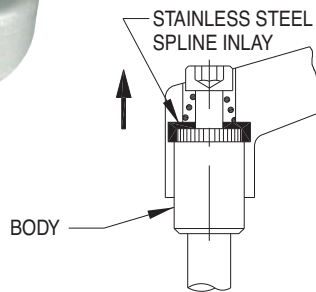
Size 3



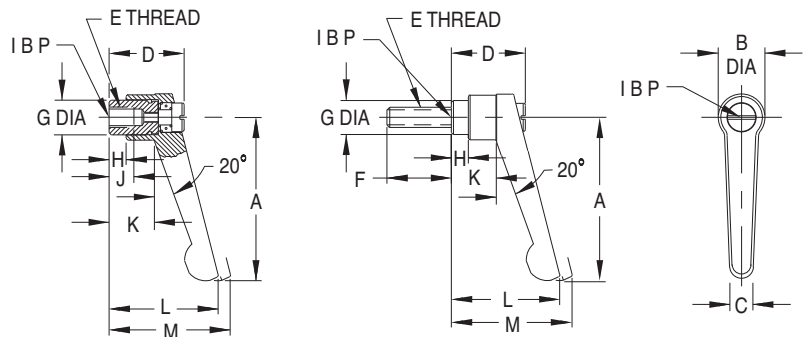
Size 2



Size 1



These Adjustable Handles are incredibly strong! They feature a unique stainless steel spline inlay, molded into the plastic handle. This provides positive metal-to-metal mating with the serrated body, for high clamping torque. Lift handle to disengage serrations, rotate to desired position, then release handle to automatically re-engage spline.



### GENERAL DIMENSIONS

SIZE	A	B DIA	C	D	G DIA	H	K	L	M
1	1-3/4	19/32	5/16	31/32	3/8	5/32	7/16	1-3/8	1-1/2
2	2-1/2	3/4	13/32	1-7/32	17/32	1/4	13/16	1-25/32	1-15/16
3	3-1/16	7/8	17/32	1-7/16	5/8	5/16	7/8	2-5/32	2-5/16
4	3-5/8	1	9/16	1-11/16	3/4	7/16	1-3/16	2-9/16	2-23/32



Adjustable handle that can be reset to any angle. Ideal for clamping in a confined space, or when a specific handle position is desired. Available in stainless steel (with a metallic-gray plastic handle), or steel (with a black plastic handle, see page 101). Rugged spring-loaded spline mechanism. Choice of four handle sizes. Available with a tapped hole or with an integral stud. Note: Catalog photos above are actual size.

### TAPPED (USA)

PART NO. STAINLESS METALLIC GRAY	SIZE	E	J
CL-3-AHP-1-S	1	#10-32	.31
CL-4-AHP-1-S		1/4-20	
CL-4-AHP-2-S	2	1/4-20	.39
CL-5-AHP-2-S		5/16-18	
CL-5-AHP-3-S	3	5/16-18	.55
CL-6-AHP-3-S		3/8-16	
CL-6-AHP-4-S	4	3/8-16	.67
CL-8-AHP-4-S		1/2-13	

### TAPPED (METRIC)

CLM-6-AHP-1-S	1	M6	.31
CLM-8-AHP-2-S	2	M8	.39
CLM-10-AHP-3-S	3	M10	.55
CLM-12-AHP-4-S	4	M12	.67

### STUD TYPE (USA)

PART NO. STAINLESS METALLIC GRAY	SIZE	E	F
CL-408-AHP-1-S	1	1/4-20	.78
CL-416-AHP-1-S			1.57
CL-508-AHP-2-S	2	5/16-18	.78
CL-516-AHP-2-S			1.57
CL-525-AHP-2-S	3	3/8-16	2.48
CL-610-AHP-3-S			.98
CL-616-AHP-3-S	4	1/2-13	1.57
CL-625-AHP-3-S			2.48
CL-813-AHP-4-S	4	1/2-13	1.26
CL-816-AHP-4-S			1.57
CL-825-AHP-4-S			2.48

### STUD TYPE (METRIC)

CLM-620-AHP-1-S	1	M6	.78
CLM-640-AHP-1-S			1.57
CLM-820-AHP-2-S	2	M8	.78
CLM-840-AHP-2-S			1.57
CLM-1030-AHP-3-S	3	M10	1.26
CLM-1050-AHP-3-S			1.97
CLM-1230-AHP-4-S	4	M12	1.26
CLM-1250-AHP-4-S			1.97



## MANUFACTURING CO.

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 Web Site: www.carrlane.com

# ADJUSTABLE HANDLES

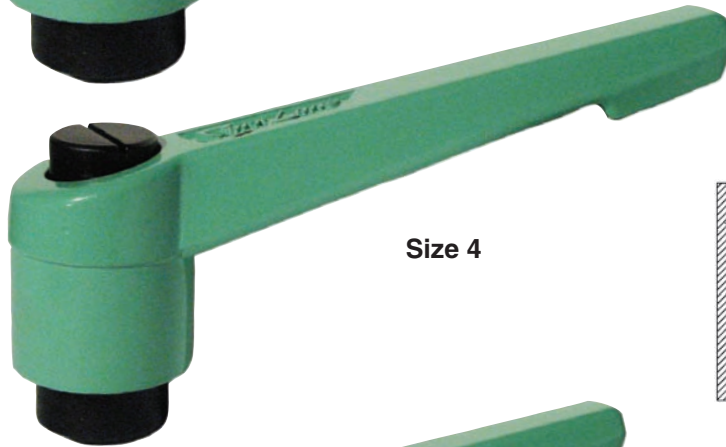
HANDLE: ZINC DIE CASTING; ENAMEL PAINT  
 BODY: 12L14 STEEL, BLACK OXIDE FINISH. SPRING: MUSIC WIRE

## Steel Body

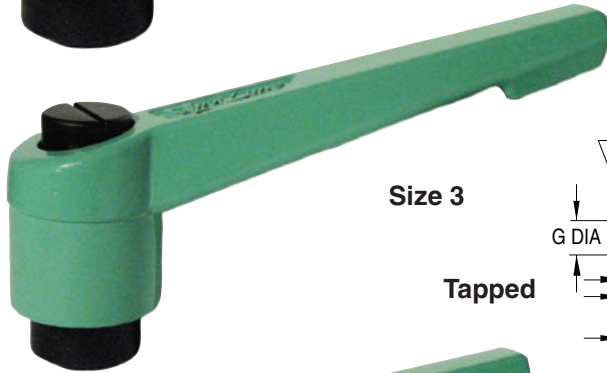
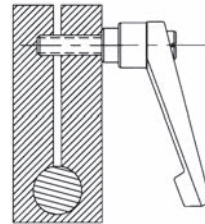
### Zinc Die Cast Handle (Moss Green)



Size 5

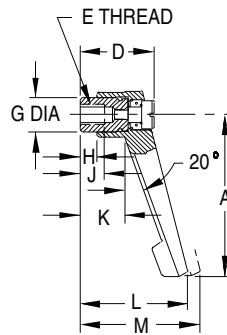


Size 4

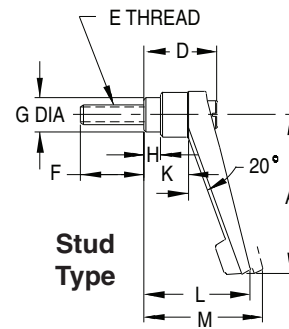


Size 3

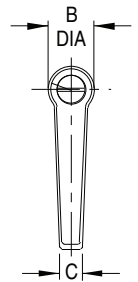
Tapped



Size 2



Stud Type



### TAPPED (USA)

PART NO.	SIZE	E	J
CL-4-AH-2	2	1/4-20	1/2
CL-5-AH-2		5/16-18	
CL-5-AH-3	3	5/16-18	9/16
CL-6-AH-3		3/8-16	
CL-6-AH-4	4	3/8-16	5/8
CL-8-AH-4		1/2-13	
CL-8-AH-5	5	1/2-13	7/8
CL-10-AH-5		5/8-11	

### TAPPED (METRIC)

CLM-8-AH-2	2	M8	1/2
CLM-10-AH-3	3	M10	9/16
CLM-12-AH-4	4	M12	5/8
CLM-16-AH-5	5	M16	7/8

### STUD TYPE (USA)

PART NO.	SIZE	E	F
CL-510-AH-2	2	5/16-18	1
CL-515-AH-2			1-1/2
CL-520-AH-2	3	3/8-16	2
CL-610-AH-3			1
CL-615-AH-3	4	1/2-13	1-1/2
CL-620-AH-3			2
CL-810-AH-4	5	5/8-11	1
CL-815-AH-4			1-1/2
CL-820-AH-4	3	1-1/2	2
CL-830-AH-4			3
CL-1015-AH-5	2	2-15/16	1-1/2
CL-1020-AH-5			2
CL-1030-AH-5	3		

### GENERAL DIMENSIONS

SIZE	A	B DIA	C	D	G DIA	H	K	L	M
2	2-9/16	3/4	3/8	1-1/8	17/32	1/4	11/16	1-11/16	1-7/8
3	3-1/8	7/8	7/16	1-1/2	5/8	13/32	15/16	2-3/16	2-5/16
4	3-3/4	1	1/2	1-11/16	3/4	13/32	1-1/16	2-1/2	2-11/16
5	4-5/16	1-1/4	5/8	2	15/16	15/32	1-5/16	2-15/16	3-1/8

Adjustable handle that can be reset to any angle. Ideal for clamping in a confined space, or when a specific handle position is desired. Rugged spring-loaded spline mechanism. Choice of four handle sizes. Available with a tapped hole or with an integral stud. Note: catalog photos are actual size.



## MANUFACTURING CO.

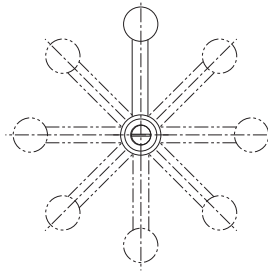
4200 Carr Lane Ct., P.O. Box 191970  
 St. Louis, Missouri 63119-7970 USA  
 Phone: 314-647-6200, FAX: 314-647-5736  
 Web Site: www.carrlane.com

# ADJUSTABLE LEVER HANDLES

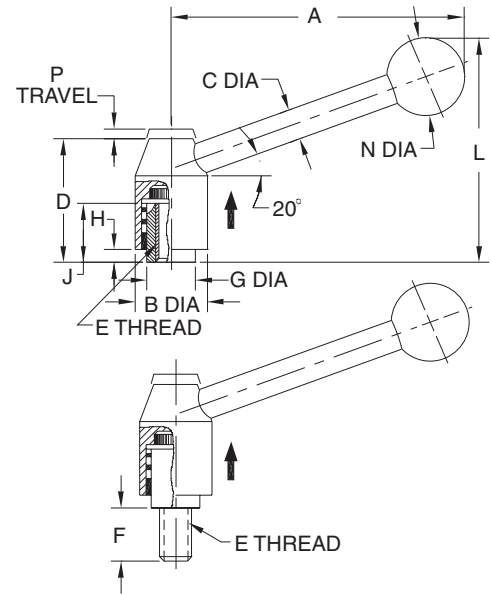
LEVER ARM, HUB, INSERT, AND SPRING: MILD STEEL, BLACK OXIDE FINISH  
BALL KNOB: BLACK PHENOLIC PLASTIC



Size 3  
Size 4  
Size 5  
Size 6



Steel



Heavy-duty adjustable handle that can be reset to any angle. Ideal for clamping in a confined space, or when a specific handle position is desired. Rugged spring-loaded spline mechanism. Lift handle to disengage serrations, rotate to desired position, then release handle to automatically re-engage spline. Available with a tapped hole or an integral stud.

### STEEL — TAPPED (USA)

PART NO.	SIZE	A	B DIA	C DIA	D	E	F	G	H	J	L	N DIA	P
CL-6-AHL-3	3	3.94	.94	.39	1.57	3/8-16	—	.63	.10	.55	2.95	.98	.18
CL-8-AHL-4	4	4.53	1.10	.47	1.91	1/2-13	—	.75	.18	.67	3.54	1.18	
CL-10-AHL-5	5	5.12	1.30	.47	2.17	5/8-11	—	.91		.91	3.94	1.26	.22
CL-12-AHL-6	6	5.71	1.57	.55	2.68	3/4-10	—	1.10	.24	1.42	4.33	1.38	

### STEEL — TAPPED (METRIC)

CLM-10-AHL-3	3	3.94	.94	.39	1.57	M10	—	.63	.10	.55	2.95	.98	.18
CLM-12-AHL-4	4	4.53	1.10	.47	1.91	M12	—	.75	.18	.67	3.54	1.18	
CLM-16-AHL-5	5	5.12	1.30	.47	2.17	M16	—	.91		.91	3.94	1.26	.22
CLM-20-AHL-6	6	5.71	1.57	.55	2.68	M20	—	1.10	.24	1.42	4.33	1.38	

### STEEL — STUD TYPE (USA)

CL-613-AHL-3	3	3.94	.94	.39	1.57	3/8-16	1.26	.63	.10	—	2.95	.98	.18
CL-625-AHL-3							2.48						
CL-813-AHL-4	4	4.53	1.10	.47	1.91	1/2-13	1.26	.75	.18	—	3.54	1.18	
CL-825-AHL-4							2.48						
CL-1016-AHL-5	5	5.12	1.30	.47	2.17	5/8-11	1.57	.91	.24	—	3.94	1.26	
CL-1025-AHL-5							2.48						

### STEEL — STUD TYPE (METRIC)

CLM-1050-AHL-3	3	3.94	.94	.39	1.57	M10	1.97	.63	.10	—	2.95	.98	.18
CLM-1250-AHL-4	4	4.53	1.10	.47	1.91	M12	1.97	.75	.18	—	3.54	1.18	
CLM-1650-AHL-5	5	5.12	1.30	.47	2.17	M16	1.97	.91	.24	—	3.94	1.26	.22



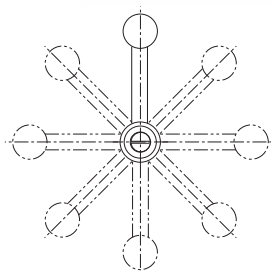
**MANUFACTURING CO.**  
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# ADJUSTABLE LEVER HANDLES

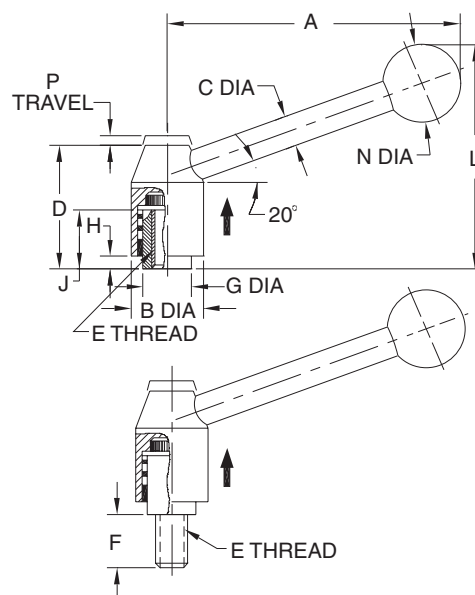
LEVER ARM, HUB, INSERT, AND SPRING: STAINLESS STEEL  
BALL KNOB: PHENOLIC PLASTIC



Size 3  
Size 4



Stainless  
Steel



Heavy-duty stainless steel adjustable handle that can be reset to any angle. Ideal for clamping in a confined space, or when a specific handle position is desired. Rugged spring-loaded spline mechanism. Lift handle to disengage serrations, rotate to desired position, then release handle to automatically re-engage spline. Available with a tapped hole or an integral stud.

## STAINLESS STEEL — TAPPED (USA)

PART NO.	SIZE	A	B DIA	C DIA	D	E	F	G	H	J	L	N DIA	P
CL-6-AHL-3-S	3	3.94	.94	.39	1.57	3/8-16	—	.63	.10	.55	2.95	.98	.18
CL-8-AHL-4-S	4	4.53	1.10	.47	1.91	1/2-13	—	.75	.18	.67	3.54	1.18	

## STAINLESS STEEL — TAPPED (METRIC)

CLM-10-AHL-3-S	3	3.94	.94	.39	1.57	M10	—	.63	.10	.55	2.95	.98	.18
CLM-12-AHL-4-S	4	4.53	1.10	.47	1.91	M12	—	.75	.18	.67	3.54	1.18	

## STAINLESS STEEL — STUD TYPE (USA)

CL-613-AHL-3-S	3	3.94	.94	.39	1.57	3/8-16	1.26	.63	.10	—	2.95	.98	.18
CL-625-AHL-3-S							2.48						
CL-813-AHL-4-S	4	4.53	1.10	.47	1.91	1/2-13	1.26	.75	.18	—	3.54	1.18	
CL-825-AHL-4-S							2.48						

## STAINLESS STEEL — STUD TYPE (METRIC)

CLM-1050-AHL-3-S	3	3.94	.94	.39	1.57	M10	1.97	.63	.10	—	2.95	.98	.18
CLM-1250-AHL-4-S	4	4.53	1.10	.47	1.91	M12	1.97	.75	.18	—	3.54	1.18	



**MANUFACTURING CO.**

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# BALL KNOBS

BLACK PHENOLIC, THERMOPLASTIC, OR CUSHION GRIP PLASTIC WITH BRASS INSERT

## Phenolic — Tapped



3/8-16 CL-852-PB  
 3/8-24 CL-854-PB  
 1/2-13 CL-872-PB  
 5/8-18 CL-882-PB  
 M10 CLM-852-PB  
 M12 CLM-872-PB  
 M16 CLM-882-PB



3/8-16 CL-752-PB  
 1/2-13 CL-772-PB  
 M10 CLM-752-PB  
 M12 CLM-772-PB



1/4-20 CL-632-PB  
 5/16-18 CL-642-PB  
 3/8-16 CL-652-PB  
 3/8-24 CL-654-PB  
 1/2-13 CL-672-PB  
 1/2-20 CL-674-PB  
 M10 CLM-652-PB  
 M12 CLM-672-PB



1/4-20 CL-532-PB  
 5/16-18 CL-542-PB  
 3/8-16 CL-552-PB  
 3/8-24 CL-554-PB  
 M8 CLM-542-PB  
 M10 CLM-552-PB



#10-32 CL-424-PB  
 1/4-20 CL-432-PB  
 1/4-28 CL-234-PB  
 5/16-18 CL-442-PB  
 5/16-24 CL-444-PB  
 3/8-16 CL-452-PB  
 M6 CLM-432-PB  
 M8 CLM-442-PB



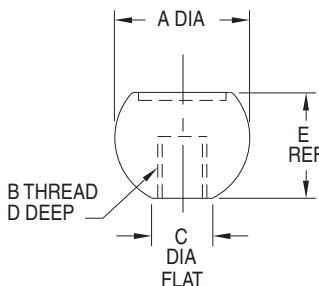
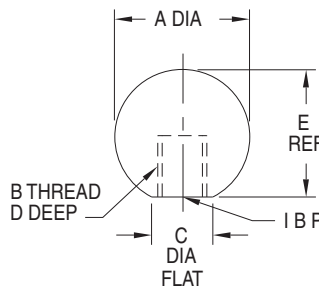
#8-32 CL-212-PB  
 #10-32 CL-224-PB  
 1/4-20 CL-232-PB  
 M5 CLM-222-PB  
 M6 CLM-232-PB

## Phenolic — Tapped Recessed Top



3/8-16 CL-856-PB  
 3/8-24 CL-858-PB  
 1/2-13 CL-876-PB

**ADDITIONAL  
 METRIC SIZES  
 NOW AVAILABLE!**



Durable multi-purpose knob, suitable for many applications. Molded-in brass insert provides superior thread strength. Choice of seven ball sizes. The largest size is available with a recessed top (1-1/4" dia) for adding custom decals or inlays. Non-standard thread sizes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.

### Choose From Three Materials

1. Phenolic plastic — glossy smooth finish, extremely hard, electrical insulator, operating temperatures to 300°F, resistant to oils and most common chemicals.
2. Thermoplastic — textured surface for improved gripping, excellent impact resistance, operating temperatures to 150°F.
3. Cushion Grip — unique plastic that feels soft to the touch, matte finish, comfortable yet rugged, excellent impact resistance, operating temperatures to 150°F, excellent gripability even when wet or oily, absorbs vibration.

### PHENOLIC — TAPPED (USA & METRIC)

PART NO.	A DIA	B	C DIA	D	E
CL-212-PB	3/4	#8-32	3/8	5/16	45/64
CL-224-PB		#10-32			
CL-232-PB		1/4-20			
CLM-222-PB		M5			
CLM-232-PB		M6			
CL-424-PB	1	#10-32	1/2	7/16	31/32
CL-432-PB		1/4-20			
CL-234-PB		1/4-28			
CL-442-PB		5/16-18			
CL-444-PB		5/16-24			
CL-452-PB		3/8-16			
CLM-432-PB		M6			
CLM-442-PB		M8			
CL-532-PB	1-3/16	1/4-20	9/16	1/2	1-1/8
CL-542-PB		5/16-18			
CL-552-PB		3/8-16			
CL-554-PB		3/8-24			
CLM-542-PB		M8			
CLM-552-PB	M10				
CL-632-PB	1-3/8	1/4-20	5/8	7/16	1-19/64
CL-642-PB		5/16-18			
CL-652-PB		3/8-16			
CL-654-PB		3/8-24			
CL-672-PB		1/2-13			
CL-674-PB		1/2-20			
CLM-652-PB		M10			
CLM-672-PB		M12			
CL-752-PB	1-5/8	3/8-16	11/16	1/2	1-37/64
CL-772-PB		1/2-13			
CLM-752-PB		M10			
CLM-772-PB		M12			
CL-852-PB	1-7/8	3/8-16	3/4	1/2	1-51/64
CL-854-PB		3/8-24			
CL-872-PB		1/2-13			
CL-882-PB*		5/8-18			
CLM-852-PB		M10			
CLM-872-PB		M12			
CLM-882-PB		M16			

### PHENOLIC — TAPPED RECESSED TOP (USA)

PART NO.	A DIA	B	C DIA	D	E
CL-856-PB	1-7/8	3/8-16	3/4	1/2	1-15/32
CL-858-PB		3/8-24			
CL-876-PB		1/2-13			

\* This size is solid plastic, without a brass insert.



## MANUFACTURING CO.

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# BALL KNOBS

BLACK PHENOLIC, THERMOPLASTIC, OR CUSHION-GRIP PLASTIC WITH BRASS INSERT

## Thermoplastic — Tapped



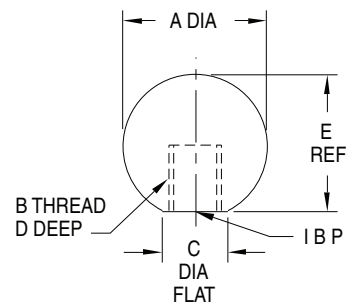
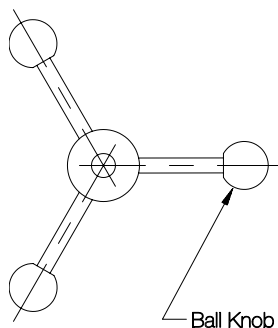
1/4-20	CL-6320-PB
5/16-18	CL-6420-PB
3/8-16	CL-6520-PB
1/2-13	CL-6720-PB

## Cushion Grip — Tapped



1/4-20	CL-6325-PB
5/16-18	CL-6425-PB
3/8-16	CL-6525-PB
1/2-13	CL-6725-PB

Ball Knobs are now available in three materials: phenolic plastic (see page 106), thermoplastic, and cushion-grip plastic.



## THERMOPLASTIC — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D	E
CL-6320-PB	1-1/2	1/4-20	5/8	5/8	1-15/64
CL-6420-PB		5/16-18			
CL-6520-PB		3/8-16			
CL-6720-PB		1/2-13			

## CUSHION GRIP — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D	E
CL-6325-PB	1-1/2	1/4-20	5/8	5/8	1-15/64
CL-6425-PB		5/16-18			
CL-6525-PB		3/8-16			
CL-6725-PB		1/2-13			

# OVAL BALL KNOBS

BLACK PHENOLIC PLASTIC WITH BRASS INSERT

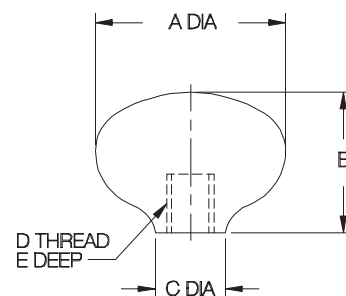
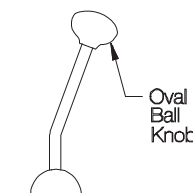
## Phenolic — Tapped



3/8-16	CL-852-OBK
3/8-24	CL-854-OBK
1/2-13	CL-872-OBK



1/4-20	CL-532-OBK
5/16-18	CL-542-OBK
3/8-16	CL-552-OBK



## PHENOLIC — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D	E
CL-532-OBK	1-1/8	1-7/16	1/2	1/4-20	7/16
CL-542-OBK				5/16-18	
CL-552-OBK				3/8-16	
CL-852-OBK	2-1/32	1-1/2	3/4	3/8-16	1/2
CL-854-OBK				3/8-24	
CL-872-OBK				1/2-13	

Comfortable-grip ball knobs that are ideal for shift levers, control levers and push/pull rods. Molded-in brass insert provides superior thread strength. Choice of two shapes. Non-standard thread sizes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.



## MANUFACTURING CO.

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# BALL KNOBS

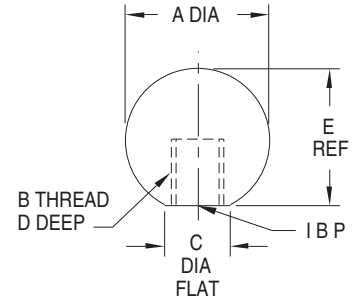
1018 STEEL, BLACK OXIDE FINISH, OR 316 STAINLESS STEEL



**Steel — Tapped**

1/4-20	CL-632-SBK
5/16-18	CL-642-SBK
3/8-16	CL-652-SBK
1/2-13	CL-672-SBK
M6	CLM-632-SBK
M8	CLM-642-SBK
M10	CLM-652-SBK
M12	CLM-672-SBK

**NOW ALSO  
AVAILABLE  
IN METRIC!**



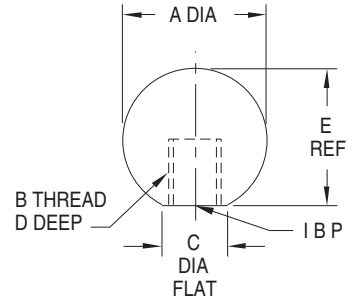
Heavy-duty knob handle made of steel with a black oxide finish. This durable, multi-purpose knob is suitable for many applications. Ideal when added weight is desirable for easier lever actuation. Note: Catalog photo is actual size.

## STEEL — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D	E
CL-632-SBK	1-1/2	1/4-20	5/8	9/16	1-7/16
CL-642-SBK		5/16-18		5/8	
CL-652-SBK		3/8-16			
CL-672-SBK		1/2-13			

## STEEL — TAPPED (METRIC)

PART NO.	A DIA	B	C DIA	D	E
CLM-632-SBK	1-1/2	M6	5/8	9/16	1-7/16
CLM-642-SBK		M8		5/8	
CLM-652-SBK		M10			
CLM-672-SBK		M12			



**Stainless Steel — Tapped**

1/4-20	CL-632-SBK-S
5/16-18	CL-642-SBK-S
3/8-16	CL-652-SBK-S
1/2-13	CL-672-SBK-S
M6	CLM-632-SBK-S
M8	CLM-642-SBK-S
M10	CLM-652-SBK-S
M12	CLM-672-SBK-S

Heavy-duty knob handle made of type 316 stainless steel for excellent corrosion resistance. This durable, multi-purpose knob is suitable for many applications, including marine and chemical environments. Ideal when added weight is desirable for easier lever actuation. Attractive polished finish. Note: Catalog photo is actual size.

## STAINLESS STEEL — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D	E
CL-632-SBK-S	1-1/2	1/4-20	5/8	9/16	1-7/16
CL-642-SBK-S		5/16-18		5/8	
CL-652-SBK-S		3/8-16			
CL-672-SBK-S		1/2-13			

## STAINLESS STEEL — TAPPED (METRIC)

PART NO.	A DIA	B	C DIA	D	E
CLM-632-SBK-S	1-1/2	M6	5/8	9/16	1-7/16
CLM-642-SBK-S		M8		5/8	
CLM-652-SBK-S		M10			
CLM-672-SBK-S		M12			



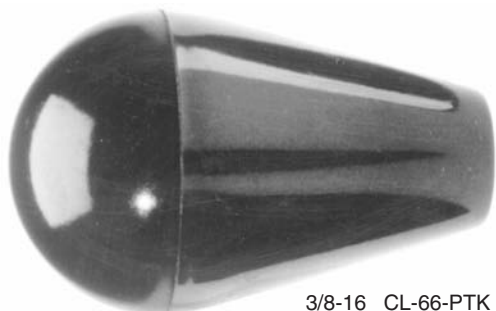
## MANUFACTURING CO.

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# OVAL TAPERED KNOBS

BLACK PHENOLIC OR CUSHION-GRIP PLASTIC WITH BRASS INSERT

## Phenolic — Tapped

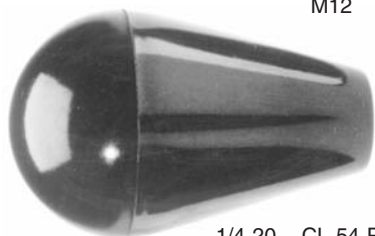


**NOW ALSO AVAILABLE IN METRIC!**

Attractive design suitable for control levers and push/pull rods. Molded-in brass insert provides superior thread strength. The solid-plastic through-hole version can be used with a Shoulder Screw as a revolving crank handle. Choice of four knob sizes. Non-standard thread sizes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.

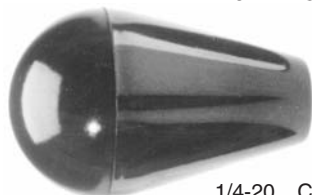
- 3/8-16 CL-66-PTK
- 1/2-13 CL-68-PTK
- M10 CLM-610-PTK
- M12 CLM-612-PTK

## Phenolic — Through Hole



3/8 Dia CL-560-PTK

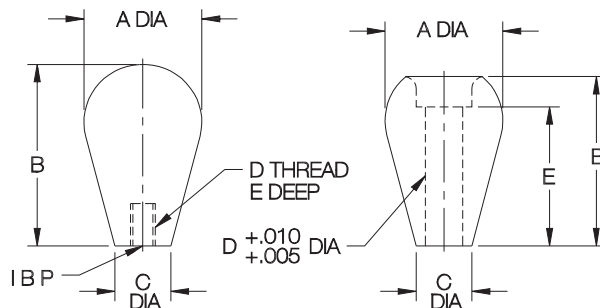
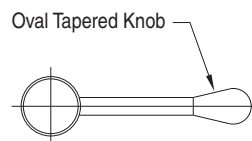
- 1/4-20 CL-54-PTK
- 5/16-18 CL-55-PTK
- M8 CLM-58-PTK



- 1/4-20 CL-44-PTK
- 5/16-18 CL-45-PTK
- 3/8-16 CL-46-PTK
- M6 CLM-46-PTK



- #10-32 CL-23-PTK
- 1/4-20 CL-24-PTK
- M6 CLM-26-PTK



## PHENOLIC — TAPPED (USA & METRIC)

PART NO.	A DIA	B	C DIA	D	E
CL-23-PTK	3/4	1-1/4	3/8	#10-32	5/16
CL-24-PTK*				1/4-20	7/16
CLM-26-PTK*				M6	
CL-44-PTK	1	1-5/8	1/2	1/4-20	7/16
CL-45-PTK				5/16-18	
CL-46-PTK				3/8-16	
CLM-46-PTK				M6	
CL-54-PTK	1-3/16	1-7/8	9/16	1/4-20	7/16
CL-55-PTK				5/16-18	
CLM-58-PTK				M8	
CL-66-PTK	1-5/8	2-1/2	7/8	3/8-16	1/2
CL-68-PTK				1/2-13	5/8
CLM-610-PTK				M10	1/2
CLM-612-PTK				M12	5/8

## PHENOLIC — THROUGH HOLE

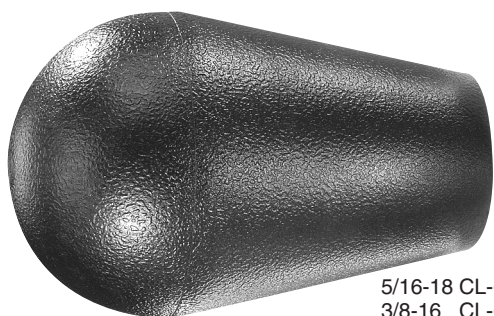
CL-560-PTK*	1-3/16	1-3/4	9/16	.375	1-7/16
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## CUSHION GRIP — TAPPED (USA)

CL-650-PTK	1-5/8	2-1/2	7/8	5/16-18	5/8
CL-660-PTK				3/8-16	

\* These sizes are solid plastic, without a brass insert.

## Cushion Grip — Tapped



5/16-18 CL-650-PTK  
3/8-16 CL-660-PTK



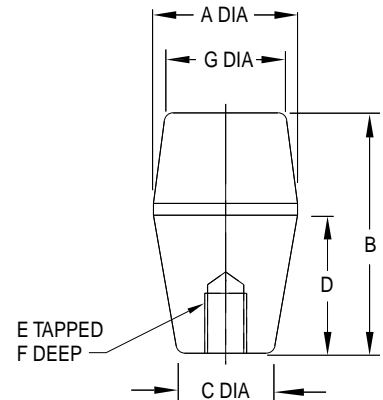
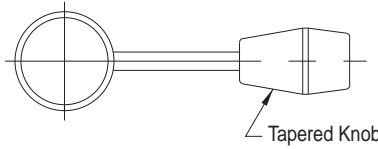
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# TAPERED KNOBS

BLACK CUSHION-GRIP PLASTIC WITH BRASS INSERT

## Cushion Grip — Tapped



5/16-18 CL-655-TAPK  
 3/8-16 CL-665-TAPK  
 1/2-13 CL-685-TAPK

Attractive square design, ideal for lever handles. Made from Cushion Grip plastic, a unique material that feels soft to the touch, comfortable yet rugged. Textured non-slip, non-glare finish. Molded-in brass insert provides superior thread strength. Non-standard thread sizes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photo is actual size.

## CUSHION GRIP — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D	E	F	G DIA
CL-655-TAPK	1-1/2	2-1/2	15/16	1-1/2	5/16-18	3/4	1-1/8
CL-665-TAPK					3/8-16	5/8	
CL-685-TAPK					1/2-13	5/8	

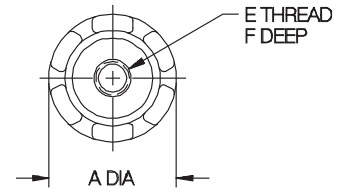
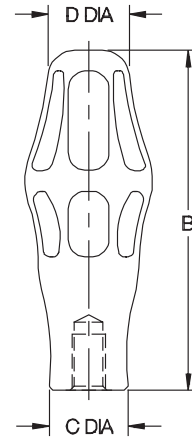
# PALM-GRIP HANDLES

BLACK THERMOPLASTIC WITH BRASS INSERT

## Thermoplastic — Tapped



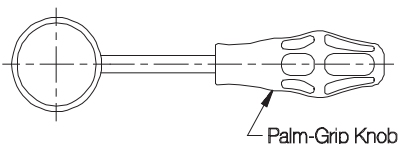
1/4-20 CL-632-PGH  
 5/16-18 CL-642-PGH  
 3/8-16 CL-652-PGH



This unique, ergonomically designed handle provides an extremely comfortable grip. Greatly reduces stress on hands, wrists, and arms to help eliminate the risk of repetitive-motion disorders. Textured non-slip, non-glare finish. Molded-in brass insert provides superior thread strength. Non-standard thread sizes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photo is actual size.

## THERMOPLASTIC — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D DIA	E	F
CL-632-PGH	1-3/8	3-3/4	7/8	7/8	1/4-20	7/8
CL-642-PGH					5/16-18	5/8
CL-652-PGH					3/8-16	



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# KNOB HANDLES

BLACK CUSHION-GRIP PLASTIC. TAPPED VERSION WITH BRASS INSERT



5/16-18 CL-855-KH  
 3/8-16 CL-865-KH  
 3/8 DIA CL-866-KH

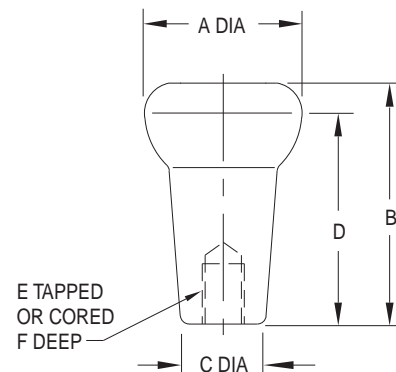


5/16-18 CL-655-KH  
 3/8-16 CL-665-KH  
 3/8 DIA CL-666-KH



5/16-18 CL-455-KH  
 3/8-16 CL-465-KH  
 3/8 DIA CL-466-KH

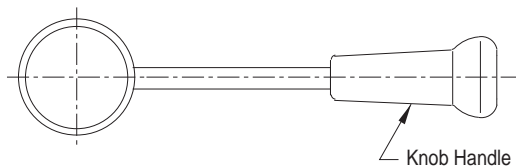
Cushion Grip —  
 Tapped or Cored



Tapered handle with a knob end for secure gripping. Made from Cushion-Grip plastic, a unique material that feels soft to the touch, comfortable yet rugged. Non-slip, non-glare finish. Molded-in brass insert on the tapped version provides superior thread strength. Optionally available with a plain cored hole to press fit on a shaft. The cored hole is somewhat undersize to grip tightly on a nominal-size shaft without requiring pinning. Non-standard thread sizes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.

## CUSHION GRIP — TAPPED (USA)

PART NO.	A DIA	B	C DIA	D	E	F
CL-455-KH	1-3/8	2-1/8	13/16	11-1/4	5/16-18	5/8
CL-465-KH					3/8-16	
CL-655-KH	1-5/8	2-1/2	7/8	1-1/2	5/16-18	7/16
CL-665-KH					3/8-16	
CL-855-KH	1-1/2	4-3/8	7/8	3-1/2	5/16-18	7/16
CL-865-KG					3/8-16	1/2



Combination knob and tapered handle. The knob end helps prevent operator's hand from sliding off the handle.

## CUSHION GRIP — CORED

PART NO.	A DIA	B	C DIA	D	E		F
					FOR SHAFT DIA	ACTUAL DIA	
CL-466-KH	1-3/8	2-1/8	13/16	1-1/4	3/8	.312-.327	1
CL-666-KH	1-5/8	2-1/2	7/8	1-1/2			
CL-866-KH	1-1/2	4-3/8	7/8	3-1/2			

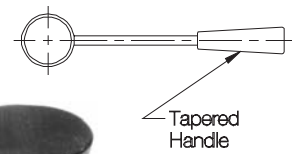


## MANUFACTURING CO.

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# TAPERED HANDLES

BLACK PHENOLIC PLASTIC WITH BRASS INSERT

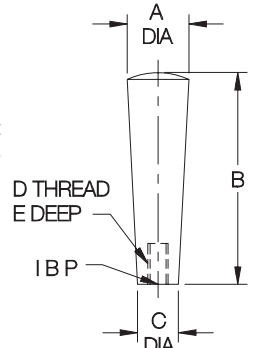


Phenolic — Tapped

#10-32 CL-00-PH  
M5 CLM-005-PH

1/4-20 CL-0-PH  
5/16-18 CL-05-PH  
M6 CLM-06-PH  
M8 CLM-08-PH

Heavy-duty design that makes an excellent grasp handle or machine shift lever. Molded-in brass insert provides superior thread strength. The solid-plastic through-hole version can be used with a Shoulder Screw as a revolving crank handle. Choice of five handle sizes. Non-standard thread sizes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.



1/4-20 CL-1-PH  
5/16-18 CL-15-PH  
3/8-16 CL-16-PH  
M6 CLM-6-PH  
M8 CLM-18-PH

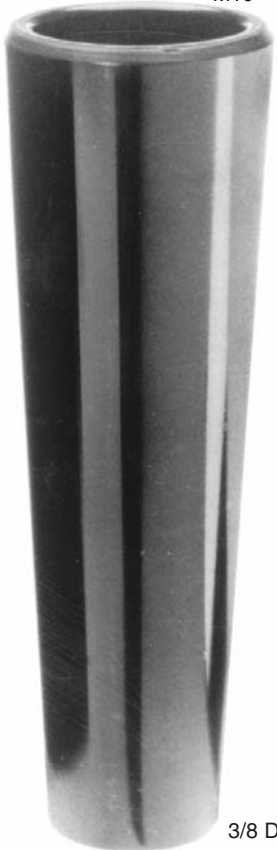
1/2-13 CL-3-PH  
M10 CLM-10-PH

3/8-16 CL-2-PH  
M8 CLM-8-PH

## PHENOLIC — TAPPED (USA & METRIC)

PART NO.	A DIA	B	C DIA	D	E
CL-00-PH	3/4	7/8	3/8	#10-32	5/16
CLM-005-PH				M5	
CL-0-PH	1	1-1/4	1/2	1/4-20	7/16
CL-05-PH				5/16-18	
CLM-06-PH				M6	
CLM-08-PH				M8	
CL-1-PH	1	2-5/8	5/8	1/4-20	7/16
CL-15-PH				5/16-18	
CL-16-PH				3/8-16	
CLM-6-PH				M6	
CLM-18-PH				M8	
CL-2-PH				1-1/8	
CLM-8-PH				M8	7/16
CL-3-PH	1-3/8	4-1/2	1	1/2-13	2
CLM-10-PH				M10	

**ADDITIONAL METRIC SIZES NOW AVAILABLE!**

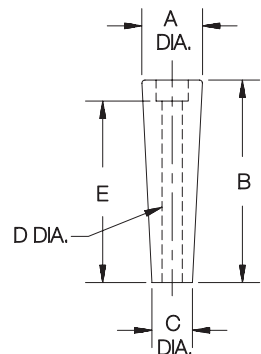
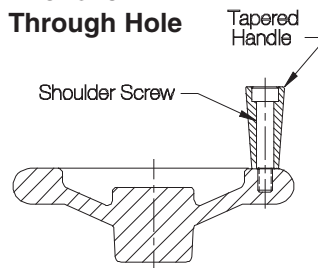


3/8 Dia CL-30-PH

3/8 Dia CL-20-PH

1/4 Dia CL-10-PH

Phenolic — Through Hole



## PHENOLIC — THROUGH HOLE

PART NO.	A DIA	B	C DIA	D		E
				NOMINAL	ACTUAL	
CL-10-PH*	1	2-9/16	5/8	1/4	.251/.256	5/8
CL-20-PH*	1-1/8	3-11/16	3/4	3/8	.380/.385	2-5/8
CL-30-PH*	1-3/8	4-3/32	1	3/8	.380/.390	2-5/8

\* This size is solid plastic, without a brass insert.



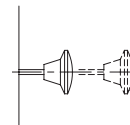
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# PULL KNOBS

BLACK PHENOLIC PLASTIC WITH BRASS INSERT

**NOW ALSO AVAILABLE IN METRIC!**



Versatile knob with an enlarged head for pulling, pushing, or lifting. Molded-in brass insert provides superior thread strength. Choice of three types, in two sizes each. Non-standard thread sizes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photos are actual size.



1/4-20 CL-632-PK  
5/16-18 CL-642-PK  
3/8-16 CL-652-PK  
M8 CLM-642-PK



#10-32 CL-424-PK  
1/4-20 CL-432-PK  
M5 CLM-422-PK  
M6 CLM-432-PK

**Phenolic—Tapped Flat Top**



3/8-24 CL-654-PKO



#10-32 CL-424-PKO  
1/4-20 CL-432-PKO  
M5 CLM-422-PKO  
M6 CLM-432-PKO

**Phenolic—Tapped Oval Top**

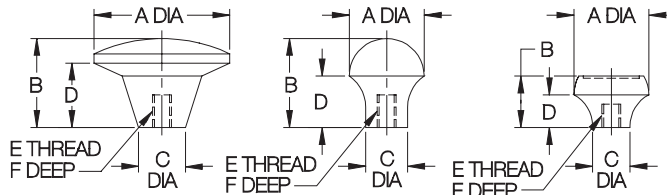


#10-32 CL-424-PKR  
1/4-20 CL-432-PKR



#6-32 CL-202-PKR  
#8-32 CL-212-PKR  
#10-32 CL-224-PKR  
1/4-20 CL-232-PKR

**Phenolic—Tapped Recessed Top**



## PHENOLIC — TAPPED, FLAT TOP (USA & METRIC)

PART NO.	A DIA	B	C DIA	D	E	F
CL-424-PK	1-3/8	7/8	5/8	5/8	#10-32	5/16
CL-432-PK					1/4-20	7/16
CLM-422-PK					M5	5/16
CLM-432-PK					M6	7/16
CL-632-PK	1-13/16	1-3/16	5/8	7/8	1/4-20	7/16
CL-642-PK					5/16-18	
CL-652-PK					3/8-16	
CLM-642-PK					M8	1/2

## PHENOLIC — TAPPED, OVAL TOP (USA & METRIC)

PART NO.	A DIA	B	C DIA	D	E	F
CL-424-PKO	1	1-3/16	9/16	11/16	#10-32	5/16
CL-432-PKO					1/4-20	7/16
CLM-422-PKO					M5	5/16
CLM-432-PKO					M6	7/16
CL-654-PKO	1-5/8	1	5/8	3/8	3/8-24	1/2

## PHENOLIC — TAPPED, RECESSED TOP (USA)

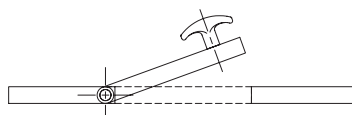
PART NO.	A DIA	B	C DIA	D	E	F
CL-202-PKR	3/4	3/4	1/2	21/32	#6-32	5/16
CL-212-PKR					#8-32	
CL-224-PKR					#10-32	
CL-232-PKR					1/4-20	
CL-424-PKR	1	11/16	1/2	7/16	#10-32	5/16
CL-432-PKR					1/4-20	

**NOW ALSO AVAILABLE IN METRIC!**



#10-32 CL-424-TH  
1/4-20 CL-432-TH  
1/4-28 CL-434-TH  
5/16-18 CL-442-TH  
M5 CLM-422-TH  
M6 CLM-432-TH  
M8 CLM-442-TH

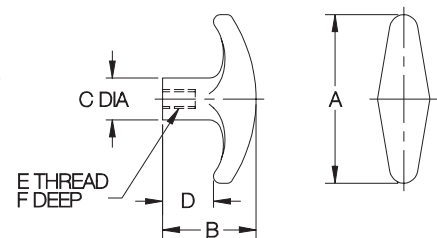
**Phenolic—Tapped**



# T HANDLES

BLACK PHENOLIC PLASTIC WITH BRASS INSERT

Easy-gripping handle for push/pull applications, such as release latches and cabinet doors. Molded-in brass insert provides superior thread strength. Non-standard thread sizes, molded-in studs, or special colors are available in quantities of 250 and above. Note: Catalog photo is actual size.



## PHENOLIC — TAPPED (USA & METRIC)

PART NO.	A	B	C DIA	D	E	F
CL-424-TH	2-1/4	1-1/4	9/16	11/16	#10-32	5/16
CL-432-TH					1/4-20	
CL-434-TH					1/4-28	7/16
CL-442-TH					5/16-18	
CLM-422-TH					M5	5/16
CLM-432-TH					M6	7/16
CLM-442-TH					M8	



## MANUFACTURING CO.

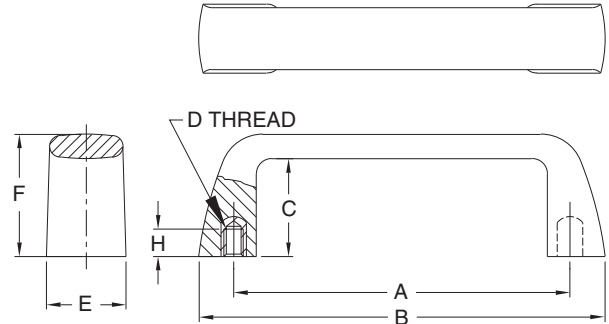
4200 Carr Lane Ct., P.O. Box 191970  
St. Louis, Missouri 63119-7970 USA  
Phone: 314-647-6200, FAX: 314-647-5736  
Web Site: www.carrlane.com

# PULL HANDLES

BLACK THERMOPLASTIC WITH BRASS INSERT



**Square Design  
Thermoplastic  
Tapped**



### TAPPED (USA)

PART NO.	A	B	C	D	E	F	H
CL-105-PHS-4	4.13	4.76	1.14	1/4-20	1.02	1.46	.35
CL-117-PHS-5	4.61	5.24	1.26	5/16-18		1.57	

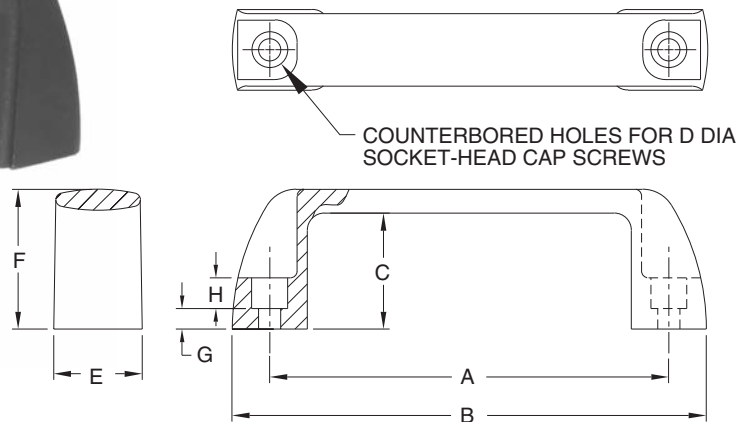
Attractive, modern-design handle that provides a comfortable grip with good ergonomic features. Excellent durability. Textured non-slip, non-glare finish. Molded-in brass insert provides superior thread strength. Black fiber-reinforced nylon thermoplastic (textured surface for secure gripping, excellent impact resistance, operating temperatures to 230°F). Choice of two handle sizes, available with either USA or metric threads.

### TAPPED (METRIC)

CLM-105-PHS-6	4.13	4.76	1.14	M6	1.02	1.46	.35
CLM-117-PHS-8	4.61	5.24	1.26	M8		1.57	



**Square Design  
Thermoplastic  
Counterbored**



### COUNTERBORED

PART NO.	A	B	C	D DIA	E	F	G	H
CL-94-PHSC-4	3.68	4.41	1.18	1/4 or M6	.83	1.42	.24	.28
CL-117-PHSC-5	4.61	5.47	1.34	5/16 or M8	1.02	1.61	.24	
CL-132-PHSC-5	5.20	6.14	1.46		1.06	1.77	.28	
CL-179-PHSC-5	7.05	8.03	1.65		1.10	1.97	.31	

Attractive, modern-design handle that provides a comfortable grip with good ergonomic features. Excellent durability. Textured non-slip, non-glare finish. Counterbored for socket-head cap screws. Choice of four handle sizes. Black fiber-reinforced nylon thermoplastic (textured surface for secure gripping, excellent impact resistance, operating temperatures to 230°F).



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# PULL HANDLES

ALUMINUM, BLACK POWDER-COATED FINISH, OR 304 STAINLESS STEEL

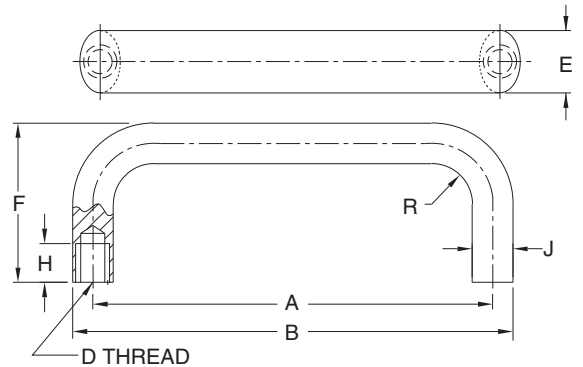


**Rounded Design  
Aluminum  
Tapped**



**Rounded Design  
Stainless Steel  
Tapped**

Attractive, modern-design aluminum handle provides a comfortable grip with good ergonomic features. Durable black powder-coated pebble finish. Tapped holes for mounting. Choice of four handle sizes, available with either USA or metric threads. Also available in stainless steel, shot blasted with a satin finish (two sizes).



### ALUMINUM — TAPPED (USA)

PART NO.	A	B	D	E	F	H	J	R
CL-112-PHR-4	4.41	4.92	1/4-20	.79	1.93	.39	.51	.51
CL-128-PHR-4	5.04	5.55			2.01			
CL-160-PHR-5	6.30	6.97	5/16-18	1.02	2.24	.47	.67	.67
CL-192-PHR-5	7.56	8.23						

### ALUMINUM — TAPPED (METRIC)

PART NO.	A	B	D	E	F	H	J	R
CLM-112-PHR-6	4.41	4.92	M6	.79	1.93	.39	.51	.51
CLM-128-PHR-6	5.04	5.55			2.01			
CLM-160-PHR-8	6.30	6.97	M8	1.02	2.24	.47	.67	.67
CLM-192-PHR-8	7.56	8.23						

### STAINLESS STEEL — TAPPED (METRIC)

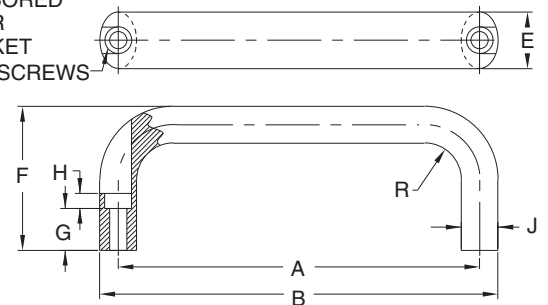
PART NO.	A	B	D	E	F	H	J	R
CLM-112-PHR-6-S	4.41	4.92	M6	.79	1.93	.39	.51	.51
CLM-128-PHR-6-S	5.04	5.55			2.01			



**Rounded Design  
Aluminum  
Counterbored**

Similar to the handles above, except counterbored for socket-head cap screws. Attractive, modern-design aluminum handle provides a comfortable grip with good ergonomic features. Durable black powder-coated pebble finish. Choice of four handle sizes.

COUNTERBORED HOLES FOR D DIA SOCKET HEAD CAP SCREWS



### ALUMINUM — COUNTERBORED

PART NO.	A	B	D	E	F	G	H	J	R
CL-116-PHRC-4	4.57	5.08	1/4 or M6	1.02	2.09	.39	.28	.67	.67
CL-132-PHRC-4	5.20	5.71			2.17				
CL-164-PHRC-4	6.46	6.97			2.24				
CL-196-PHRC-4	7.72	8.23							



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